



TELEPHONE NUMBER:
3617 CENTRAL (3 lines).

TELEGRAPHIC ADDRESS:
"CHEMICUS, CANNON, LONDON."
[Charged as two words only.]

Registered as a Newspaper.

Published Weekly at 42 CANNON STREET,
LONDON, E.C.

Established in

[AUSTRALASIA, 1885.]

Established in
ENGLAND, 1859.]

No. 1,912. Vol. LXXXVIII.

SEPTEMBER 16, 1916.

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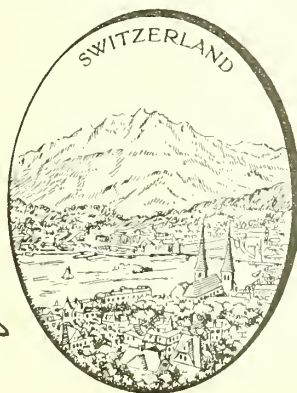
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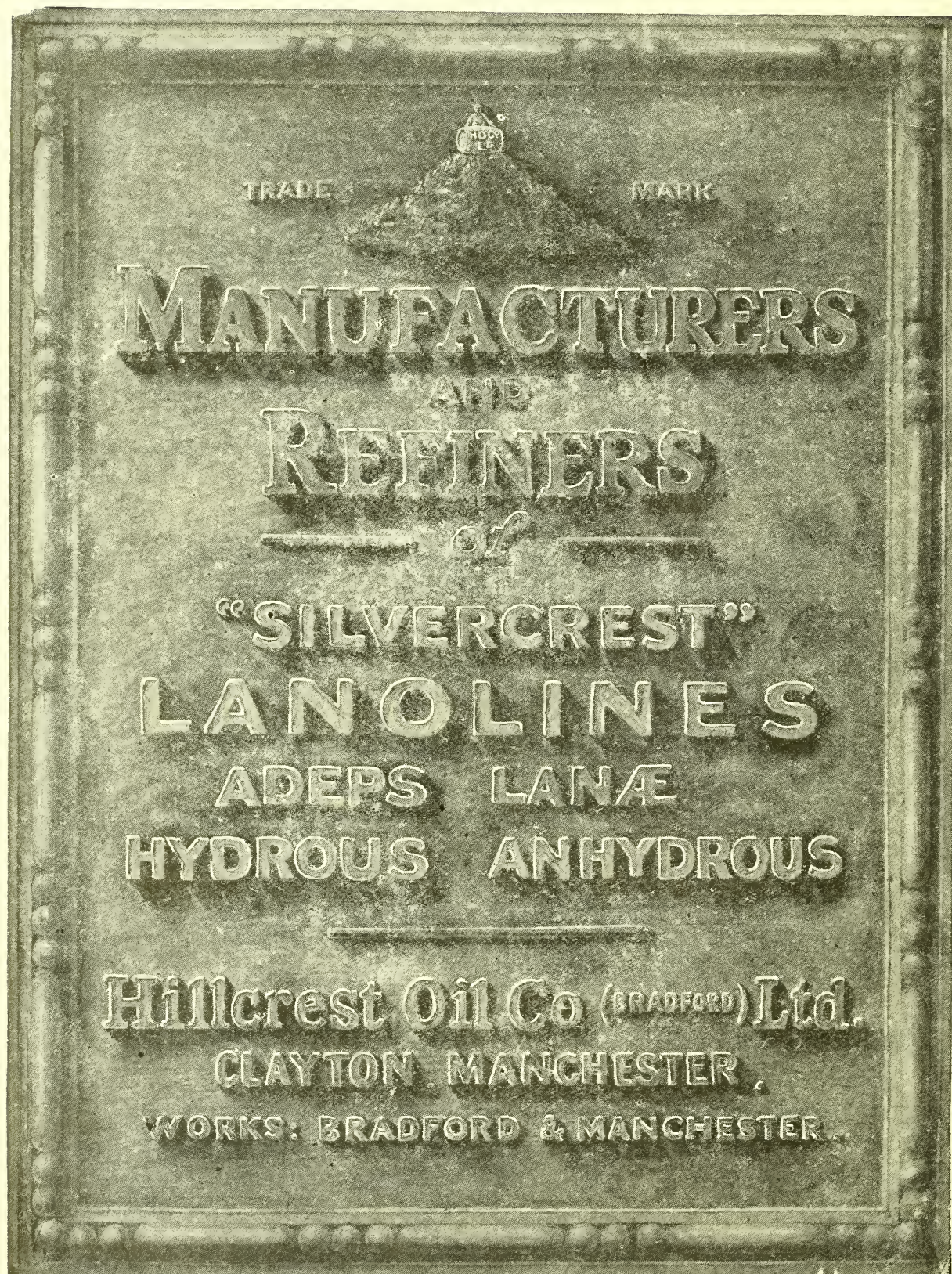
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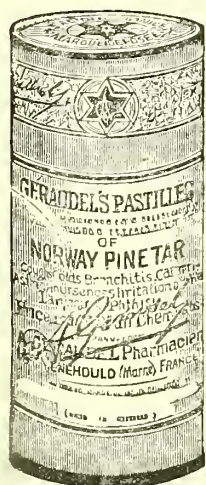
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YOUR PROFIT ON THE INVESTMENT WILL BE 50%

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The Arabic numerals (1 to 32) in this Index refer to Advertisements in front of the literary pages, the Advertisements following the literary pages are numbered in Roman numerals (I to xxiv).

ALBERTORS, Ld., Prana Sparklets	xii	FRAME FOOD CO., Ld., Foods,	14	ORRIDGE & CO., Chemists Valuers	Col. Supp.
ALLCOCK MANUFACTURING CO., Plasters, &c.	xvii	FURBER BROS. Chemicals (Pure and Technical), ..	14	PAPIER POUDEUR, Ld., Toilet Preparations	24
ALLIANCE DRUG & CHEMICAL CO., Drugs, Chemicals ..	xvii	FULFORD, O. E., Ld., Medicinal Proprietaries, Toilet ..	4	PARKE, DAVIS, & CO., Dentifrices, Packaged	17
AMERICAN BUREAU OF FOREIGN TRADE, ..	10	Articles, ..	4	Peonials, Scrums, Tablets ..	17
Chemicals, Drugs, &c.	10	GARDNER, W., & SONS (GloUCESTER), Ld., Machinery ..	18	PEARS, A. & F. Ld., Toilet Soaps ..	1
AMERICAN COMMERCE CO., Ld., Chemicals, ..	ix	GATHERGOODS, Dr. E. W., EXOR, Grude Drugs ..	13	PETRI BROS., Chemicals, ..	viii
ANGLO-FRENCH ..	ix	GRAEDEL, L., France, ..	13	PEXTON, CHATHAM, Photo Development ..	16
Arnam, Substitutes, Hypodermic Syringes ..	xv	GIBBINS, B. & CO., Tablets, ..	Col. Supp.	PHARMACEUTICAL LAXATIVE CO., Laxative, ..	11
ART & MEDICAL BRUSH MFG. CO., Camell Hairbrushes ..	xv	GIGNOUX FRERES & CO., Boldo Leaves, ..	viii	PICERON, ..	1
ASIATIC PETROLEUM CO., Ld., Paraffin Wax ..	23	GLOBE TABLET & MFG. CO., Tablets ..	xvi	PICKARD, IVE & RANKIN, Ld., Acetylsalicylic Acid, ..	iv
ASSOCIATION OF MANUFACTURING CHEMISTS, Ld., ..	23	GOODALL, BACKHOUSE & CO., Packaged Goods, Herbs Cover ..	27	PIERSON, MORRELL & CO., Aspirin, ..	xix
AYTON-GRAHAM, Ld., Window Fittings ..	30	GOWER, JOHN, Books (Secondhand, &c.) ..	Col. Supp.	PRESTON'S LIVERPOOL DISTILLERY CO., Ld., ..	23
BAILEY, ROBERT, & SON, Gauzes, Surgical Dressings ..	xii	GREEN, R. R., & CO., Chemicals (Technical) ..	27	S.V.R., S.V.M.	23
BAKER, PARSON, & CO., Chemicals, Ld., ..	Col. Supp.	GREEN, J. BARCHAM, & SON, Filter Papers ..	27	RADIUM SALT CO., Bath Salt ..	28
BARKER, REGINALD W., Patent Agent ..	Text 963	HAIDER, E. C., Dental Mechanics ..	23	RAIMBE & CO., Bronchial Waters ..	xiii
BARKER, R. & SON, Infants' Preservative ..	xviii	HARKER, C. R., STAGG & MORGAN, Ld., Hair ..	27	RASOM, W., Parson, W., ..	23
BATH & WEST OF ENGLAND COLLEGE ..	16	Dyes, Packaged Goods, Galenicals, ..	27	Oil, Resins and Resinoids, Medicinal Extracts ..	Cover
BECKER, SHILLAN & CO., Chemicals ..	xii	HARLEY, T., Rat Poison ..	27	RAWORTH, J. E., Patent Agent ..	28
BEROHAM, THOMAS, Phls ..	xvi	HAWKER & BOTWOOD, Ld., Wheat Dressing ..	Cover	RENDELL, W. J., Pessaries ..	xiii
BERDOE & TISH, Chemists, &c., ..	Col. Supp.	HAY, W. L., Soluble, ..	27	RIGAUD-CHAPPELLE, French Props. and Perfumery ..	25
BERRY, ROBERT, Ointments, &c., ..	xii	HENRY, T. W., Calmed Magnesia ..	iv	ROYAL PHARMACEUTICAL LABORATORIES ..	iv
BLYTHE, W., & CO., Ld., Epsom Salts, Zinc Sulphate ..	viii	HEWLETT, C. J., & SON, Ld., Pharmaceutical Preps. ..	14	Abstr. of ..	16
BONAVENTURA, FELICE, & CO., Lanoline, Essential ..	20	HEYMANN, H., Chemicals ..	28	RUBECK, H., Essential Oil, Thymol ..	Text 963
Oil, Perfume Materials ..	20	HILLREST OIL CO. (Bradford), Ld., Lanolines ..	xii	RUDDUCK & CO., Chemists' Shop Fittings ..	Col. Supp.
BOVRIL, Ld., Meat Extracts ..	9	HOLLANDS-DE MELKSUIKERFABRIEK, Milk Sugar ..	x	SANITAS CO., Ld., Disinfectants ..	Text 963
BRADLEY, BOUASSA, Polishes ..	28	HOLMES & CO., Chemicals, ..	28	SCHELLER, EMIL, & CO., Chemicals (Swiss), ..	vii
BRASSER (Ld.) MFG. CO., Rubber Goods ..	28	HOYLE, J. T., & CO., Aniline Dyes ..	28	SHADELINE CO., Hair Dyes ..	29
BRITISH DIAMANT CO., Foods ..	x	HUISING, C. L., American Drugs, Chemicals, &c., ..	xviii	SINGLETON & COLE, Ld., Tobacco and Cigars ..	28
BRITISH PASTEUR-CHAMBERLAND FILTER CO., ..	xviii	IDRIS & CO., Ld., Aerated and Mineral Waters ..	6	SMITH, F. & CO., Alkalies, Resins, Resinoids, ..	14
BROWN, B., & BRO., Drugs, Chemicals, Vegetable Oils ..	14	INGRAM, J. G., & SON, Hot Water Bottles ..	xx	SOLOZZI, Liquorice, ..	16
BRUNNER, MOND & CO., Ld., Alkalies ..	iii	ISAACS, I., & CO., Medical Gaswars ..	29	SPECTACLEMAKERS COMPANY ..	16
BURGE, WARREN, & CO., Ld., Hair-Rubber ..	28	J. O. BROS., ..	29	SPENCER, ISAAC, & CO. (Aberdeen), Ld., Cod Liver Oil ..	27
Goods, Anticorrosives, Anti-Rheumatic Rings ..	28	JOSEPHS, PHILIP, & SONS, Ld., Shopfitting, ..	Col. Supp.	STEAD & CO., Photo Developing ..	Col. Supp.
BURNSIDE & CO., Eucalyptus Oil ..	10	KENT, G. B., & SONS, Ld., Brushware (all kinds), ..	21	STEARNS, F., & CO., Peppines, Organotherapy Product ..	xiii
BURROUGH, J., Ld., Absolute Alcohol, S.V.R., S.V.M. Text ..	968	KRASKA CO., Toilet Articles ..	22	STERN, BENJAMIN, Ld., Fruit and Lemon Jelly ..	23
BURROUGHS WELLCOME & CO., 'Tahloid' Preps. ..	31	LAMBERT, S., & CO., Drugs and Essential Oils ..	10	STIFENDUM STOPPER CO., Boxes, Stoppers, ..	30
BURROW, W. & J., Malvern Waters ..	23	LANE-HALL, R., & CO., Chemicals (Technical and Fine) ..	x	STOKES, C. A., & CO., Ld., Shaving Sticks ..	29
BUSH, W. J., & CO., Ld., Chemicals, Essences, Perfumery ..	23	JOSEPH, L. E., & SON, Ld., Chemical Glassware ..	xix	STURGE, JOHN & E., Ld., Precipitated Chalk, Citric ..	16
BUT, E. B., & CO., Ld., Acetanilide, Aniline Dyes ..	ii	LAZARD-GODCHAUX CO., Ld., Chemicals, Dyestuffs, ..	14	Acid and Citrates ..	xiv
CADBURY BROS., Ld., Cocoa, ..	Cover	LENNON Ld., South African Agencies ..	14	THERMOS, Ld., Vacuum Flasks ..	19
CALDER'S YEAST CO., Ld., Malt Extract ..	xix	LEVEMORE, A., & CO., Ld., Chalk (Precipitated) ..	28	THOMPSON & CAPPER, Ld., Pharmaceutical Machinery ..	10
CAENEGIE BROS., Chemicals, Surgical Dressings ..	xix	LOTHOUSE & SALTER, Ld., Foods, Asthma Remedies ..	12	THORNLEY, S. Ld., Methylated Spirit ..	23
CHATELAIN, J. L., French Medicinal Proprietaries ..	vii	LUDY & CO., Silver Salts, Tannin Preps. ..	16	TIERNEY, J., ..	23
CHESTER, A. D., & CO., Ld., Chemicals ..	vi	MCGLOSHAN, D., Fruit Drink ..	16	TOLKOWSKY, S., Russian Crude Drugs ..	x
CHRISTY, T., & CO., Ld., Articles, Tartar Remover ..	23	MCKESSON & ROBINS, Capsuled Pills, Dentifrices ..	21	TOMLINSON & HAYWARD, Ld., Seed Dressing Text ..	968
CHRISTOPHER, GOLDEN, ..	23	MILLAR, A. & CO., Ld., Chemicals (Industrial, Technic., ..	28		

91 & 92 GREAT SAFFRON HILL, LONDON, E.C.



It's British

Take a
Note of the Name

Tonalka

THE BRITISH APERIENT WATER

A Profitable Line for Chemists.

IDRIS & CO., LTD.
Pratt Street,
Camden Town,
N.W.

"PRANA" SPARKLETS

PRESENT PRICES TO THE PUBLIC:

"C" size Syphon - - 5/6.

"B" size Syphon - 4/-

"D" Bulbs (per dozen) 2/6

"B" Bulbs (per dozen) 1/8

"D" BULBS REFILLED AT 1/9 PER DOZEN.

IMPORTANT NOTICE TO THE TRADE.

- ¶ Every empty "D" Bulb returned to be re-filled saves the making of a new Bulb at our Works, and consequently economises both time and material for the production of ammunition.
- ¶ THE TRADE IS URGENTLY REQUESTED TO ASSIST US IN SUPPLYING MILITARY REQUIREMENTS BY FORWARDING TO OUR WORKS AT ONCE ALL EMPTY "D" BULBS RETURNED BY USERS IN EXCHANGE FOR NEW ONES, & BY REMINDING CUSTOMERS THAT THESE EMPTY BULBS ARE WORTH 9d. DOZ.
- ¶ As the manufacture of "Prana" Sparklets is necessarily of secondary importance during the War—except for the needs of the British Expeditionary Forces and Red Cross Hospitals—the general requirements of the Trade this Summer can only be met by the co-operation of the Trade itself in returning as many empty "D" Bulbs as possible, without delay.

AERATORS LIMITED

"Prana" Sparklet Works, Upper Edmonton, N.

To Aerated Water Manufacturers.

DELICIOUS AERATED BEVERAGES

ARE MADE FROM

HAY'S ESSENCES

Cream Soda Essence,

Cream Raspberry Essence

Cream Strawberry Essence

Peach Ripe Essence, Orange Squash Essence.

Claret and Lemon Essence,

Cherry Cider Essence,

Lemon Squash Essence (BRIGHT or CLOUDY)

Lime Squash Essence.

Lime Juice and Soda Essence,

Orange Champagne Essence,

Kola Champagne Essence, and

"Pale Dry" Ginger Ale Essence.

SAMPLES AND FULL DIRECTIONS FOR USE FREE ON APPLICATION.

ATTRACTIVE LABELS AND SHOWCARDS SUPPLIED.

Orders for Two Gallons and upwards of Essence may be shipped under bond.

Indentors when ordering should specify HAY'S manufacture.

WILLIAM HAY, Ltd. ESSENCE DISTILLERS HULL & LONDON.

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London Depot—3 YORK ST., WALWORTH, S.E.

Telegraphic Address { "Bushworth London."
"Hay, Limited, Hull."

National Telephone { London, No. 2753 Hop.
Hull, No. 488.

Code : A B C, 5th Edition.

A large, stylized graphic of the number '5' with a '%' symbol, rendered in a bold, textured, serif font.

Cash Bonus

For Retailers again this year

We have pleasure in announcing that we are again offering a 5% cash bonus on the gross value of all orders for Bovril received up to October 31st, inclusive. (Goods at net prices excluded.)

Now is the time to order your stock of Bovril. Although Beef has much increased in price, the price of Bovril remains unchanged. This should mean much larger sales this season.

It is therefore advisable to buy on a larger scale than usual and to order your stocks early and so avoid any chance of delay in delivery.

*For full particulars of trade terms and this year's 5% cash bonus apply to Bovril Ltd.,
148-166, Old Street, London, E.C.*

BOVRIL

SAM^L LAMBERT & CO.,

14 MINCING LANE, LONDON, E.C.

Importers and Exporters.

First hands for all

Estd. 1870.

CRUDE DRUGS & ESSENTIAL OILS.

A few Specialities :—

ARABIC GUMS, CASCARA SAGRADA, ERGOT, CITRIC ACID, COD LIVER OIL, CREAM OF TARTAR, GLYCERIN, HONEYS, MESSINA ESSENCES, OLIVE OIL, PEPPERMINT OIL, QUININE, QUICK-SILVER, RHUBARB, SARSAPARILLA, SHELLAC, TURPENTINE.

Sole Agents for :

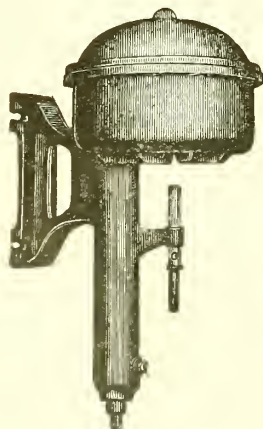
Oils : Lemon, Bergamot, Orange ; Terpeneless Oils : Lemon, Bergamot, Orange.—*Fratelli de Pasquale & Co., Messina.*
Bay Rum and Bay Oil.—*Bornn, St. Thomas.*

Essential Oils, Drugs, Chemicals, &c.—*National Aniline & Chemical Co., New York.*

STOKES' AUTOMATIC WATER STILL. SIMPLICITY ITSELF

STOKES' GAS-HEATED WATER STILL will distil half to two-thirds of a gallon per hour.

NO LICENCE NECESSARY.



ENTIRELY AUTOMATIC THEREFORE IT REQUIRES NO ATTENTION.

Most Economical & Efficient Still made.

EASILY FIXED IN A FEW MINUTES.

Only requires Gas and Water Connections.

Carriage Paid British Isles

Immediate Delivery from the Sole Agents—

THOMPSON & CAPPER, Ltd.
Manesty Buildings, College Lane, LIVERPOOL.

Telephone—Royal 2060.

ESTABLISHED 1843.

Telegrams—"Sanitas Liverpool."



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FOR SPOT AND FUTURE DELIVERY

HYDROQUINONE
DIAMIDOPHENOL (Amidol)
EXOL (Metol Substitute)
CAFFEINE ALKALOID
FORMALDEHYDE
SALICYLATES
BROMIDES

ALSO

ALL SCARCE AND PRECIOUS DRUGS AND CHEMICALS.

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Cable Address : "NOMEREXPO." ALL CODES.

Maw's

S MAWSON & SONS
(GPO BOX N° 54)
7-12 ALDERSGATE ST
LONDON E.C.

Page

NUMBER 257

SEP. 16, 1916

HOURS OF BUSINESS: 8.30 a.m.—5.30 p.m. CLOSE AT 1 p.m. SATURDAYS.

YOUR AUTUMN REQUIREMENTS

In a week's time Autumn will be with us. Here are a few lines for the approaching Season:

MENTHOL SNUFF. In neat pocket tins. Price 2/3 dozen.
OTTO OF ROSE COLD CREAM. In dainty earthenware pots.
5d. size 4/6 dozen. 1/- size 8/- dozen.
LUNGALOW FOOT-WARMERS. 2 pint, 18/6 dozen; 3 pint, 21/- dozen; 4 pint, 25/3 dozen.
BRONCHITIS KETTLES. Made in our London factory. The "Cottage" Jointed Spout and Spreader. 3 pint 1/9 each. 4 pint 2/3 each.
INHALERS. Earthenware, double valved, white 60/6 dozen (2145/S). Glass, boxwood top, 14/- dozen (2149/S). Glass for chloride of ammonium, 60/- dozen (2130/S).
BODY BELTS. English pattern, belt to huckle, made in felt or flannel, grey or red. Sizes 28 to 40 inches. From 30/- dozen.
CAPSULES.
Ammoniated Quinine. In tins with metal divisions.
1 dozen capsules, 4/9 dozen boxes.
2 dozen capsules, 9/3 dozen boxes.
Ammoniated Quinine and Cinnamon.
As above. 1 dozen capsules, 6/- dozen boxes.
2 dozen capsules, 11/6 dozen boxes.
Ammoniated Tincture of Quinine. In round enamelled tins.
24 capsules 8/3 dozen boxes.

Chemist's name and address printed free on orders of one gross and over. Write for sample designs.

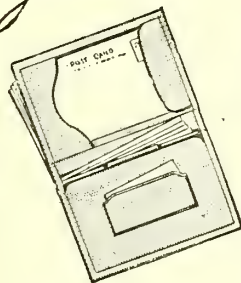


ALWAYS A
FAVOURITE

Ladies like lavender water—when its good and fresh and lasting. They will like this brand, Maw's fragrant Old English preparation. Put up in dainty bottles.

5/-
DOZEN.

"Just a few lines—"



to let you know that the "Aye Ready" Writing Companion, complete with stationery, is one of the best selling lines we have put before our customers.

The case is made of stout waterproof khaki material. Price complete—

18/-
DOZEN

Impressions

A few days ago we put the following question to a number of our staff: "What do you remember most vividly of your first day in the House of Maw?"

The answers, as were to be expected, were varied, and the point of view depended upon the work on which they were engaged.

One whose duties were connected with the correspondence offices recalls the continuous tap-tap-tap of a battery of typewriting machines, and the coming and going of the postmen collecting and delivering sacks of mails at short intervals throughout the day.

Another had been impressed with the "social atmosphere" of the showrooms. "Customers," he noted, "seemed to take a pleasure in lingering and chatting over old times. Buying was a secondary consideration; but they seemed to take it for granted that we had 'something new' to show them."

"The stacks and stacks of crates in your yard," admitted a third member when questioned, "made me assume that I had arrived on a particularly busy day. I thought they would all be removed during the next few hours." There was, indeed, a general "first impres-

sion" that they had commenced their duties when business was unusually active.

But every workday since has been the same!

Interesting and amusing were the various "first impressions" related in answer to our question. But there was one impression—endorsed by experience—above all others, and that was the personal interest which each member of the staff takes in the maintenance of the reputation of the House of Maw.



THE care of the lips during the coming cold days of Autumn & Winter will turn your customers' attention to the selection of a suitable lip salve. Our "Varex" (regd.) brand, put up in red or white, in neat metal pocket cases, is "just the thing." 3/9 d. z n. with bonus.

Capsule

ALL-BRITISH

and efficient substitutes for similar organic compounds of foreign origin.

Literature, &c., upon request—

MELLIN'S PHARMACY

43 Regent St.,
— LONDON —

MELARGEN

(Mellin)

Containing 10% metallic Silver. For use in Ophthalmia, Gonorrhœa, Rhinitis, &c.

NUCLARGEN

(Mellin)

A silver nucleinate, containing 30% Ag. For use in Ophthalmia, Neonat, Acute Conjunctivitis, Keratis, etc.

GLUTARGEN

(Mellin)

Silver Gelatose, containing 15% Ag. For use in Gonorrhœa, Conjunctivitis, Ophthalmia, etc.

GLUTIODIN

(Mellin)

A pure iodised vegetable protein, containing 10% Iodine. Recommended for use in Asthma, Arterio-sclerosis, Scrofula, Syphilis, Obesity, Diabetes.

FERRALBIN

(Mellin)

Iron in direct protein combination without the aid of Citric, Tartaric, or other acids, equivalent to 15% Fe_2O_3 , soluble in digestive fluids. Valuable in all cases of Debility, Chlorosis, Anæmia, etc.

LOFTHOUSE & SALTMER, Ltd.

Wholesale & Export Drug Merchants,
Manufacturing Chemists

HULL

INVITE the Trade to take up the following valuable P.A.T.A. Protected Lines, bearing a large Protected Retail Profit, which sell freely and are well known and valued by the Public in many parts of the country.

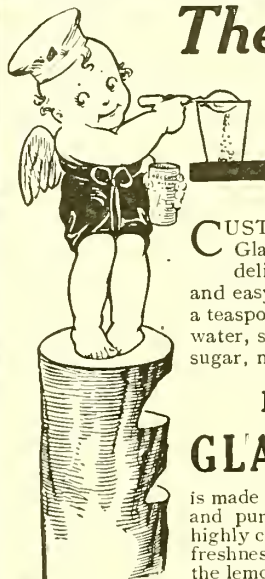
	P.A.T.A. Protected	Dozen
	Retail Price.	Net.
*LOSALL'S SALT (well advertised), tins	7½d.	5/-
* " " " " " "	1/2	10/-
* " " " " " bottles in cartons	1/6	12/-

***Losall's Salt sells so well, surely it must pay Pharmacists to stock such a large profit-bearing protected line.**

LOSALL'S COMPOUND SULPHUR SOAP.

A valuable emollient medicated skin soap, especially suitable for use in Eczema } 1/6 12/-

Chemists requiring effective advertising matter for Losall's Salt, &c., will, on application direct to Lofthouse & Saltmer, receive a liberal supply of Dummies, Showcards, Window Slips, Price Tickets, &c., Carriage Paid, whether or no they have an account open with the Firm.



The top-notch SUMMER DRINK

CUSTOMERS ask for Freemans Glass-Lemon because it is so delicious, refreshing, economical and easy to make. You simply put a teaspoonful into a tumbler, fill with water, stir, and there you are. No sugar, no hot water, no bother.

FREEMANS GLASS - LEMON

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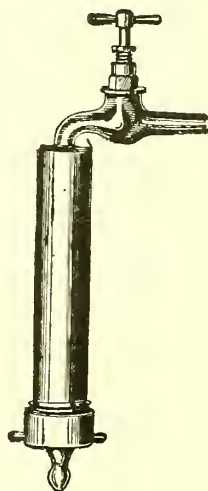
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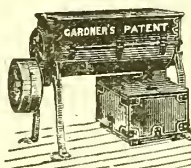
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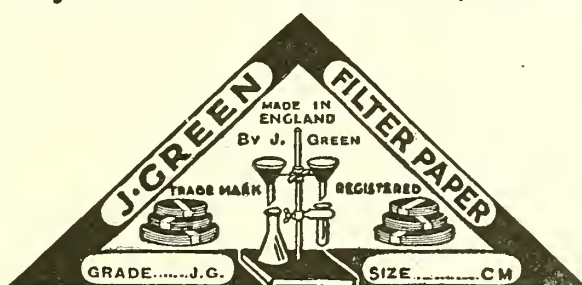
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Hayle Mill - Maidstone, Kent.

Makers of Filter Papers to replace the
German Nos. 595, 597, 598, 602, 604, etc.

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**Soxhlet Thimbles,
Drying Trays,
Drop Reaction Papers,
Filter Pulp, etc.**

Samples and Price Lists can be obtained
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OVER 100 % PROFIT
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Laurence's Hair Dyes

One solution, nine shades.

A first-class article with an excellent demand, created entirely on its own merits, and carrying a first-class profit.

Size.	Minimum retail	Minimum wholesale.	
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SPECIAL BONUS.

Buyers of 3 doz. bottles receive 3 bottles gratis (may be assorted and any size).

Do. 6 doz. do. 8 bottles gratis.

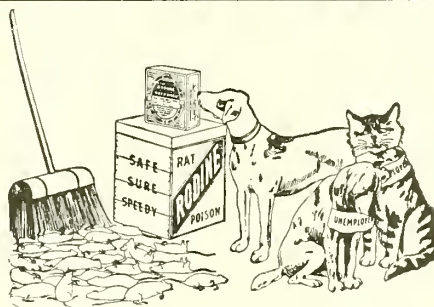
Do. 12 doz. do. 18 bottles gratis.

Equivalent in the case of the size in most general demand, viz. 1/3 size to 4/6, 12/- and 27/- respectively.

SOLE PROPRIETORS—

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DOGS AND CATS

are no longer necessary for ratting purposes, because where "Rodine" is employed it not only keeps down rats but exterminates them completely. Swarms are cleared out in a night. A Gamekeeper says: "'Rodine' simply makes a clean sweep."

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is attractively and extensively advertised, price protected, and yields nearly 100% profit. Keep "Rodine" at the front counter.

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SPECIALITIES.—Gums Arabic and Tragacanth as imported or finely powdered.**A REAL LABOUR SAVER.
THE ELBIE DUSTLESS DUSTER.**

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Sales to date nearly 500,000. (1)

ELBIE DUSTER CO., Thongsbridge, Huddersfield.**First-Class Mechanical Dentistry.**

Reliable workmanship. Popular Prices. Moderate charges for Gold, D.A., Tubes, Seamless Gold Crowns, Sections, Vulcanite, &c. Ash's and D.M. Co. Teeth and Rubber guaranteed. Punctuality strictly observed. List free. Trial case solicited. Gold and D.A. work a speciality. Special cheap rates for showcase pieces, 20 years' experience of first-class mechanical dentistry.

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S.R.****A. MACNAIR & CO.** *Dolphin Distillers.*
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LACTIC ACID.**

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ANILINE DYES
FOR FOOD STUFFS, ETC.

Lowest Prices for Egg Yellow, etc.

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Every known Brand at Manufacturer's own List
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(White or Coloured).

With inscriptions in any desired

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"Perfection of Cachets."—Lancet.

These Cachets are especially adapted for Headache, Neuralgia and other powders.

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In Ten Sizes. Also supplied to fit existing machines.

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MALVERN
WATERS****"ALPHA
BRAND"**PROTECTION
FROM TYPHOID

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Burrow,
Springs,
Malvern.****SILVER SALTS**Highest Award
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Products at
Berne, 1914.Silver Proteinate, Silver Nucleinate, Silver Citrate,
Colloidal Silver.**TANNIN PREPARATIONS** Tannin Albuminate
Methylendi-Tannin.**LUDY & CO.,** Chemical Works, Berthoud, Switzerland.

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RADIUM DENTIFRICE
RADIUM TONIC PILLS
RADIUM BATH LOTION
RADIUM HAIR TONIC

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**LE BRASSEUR SURGICAL MANUFACTURING CO., Ltd.**
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The Largest Manufacturers and Cheapest House for
Surgical Rubber Goods, Rubber Urinals, Enemas, Spray Syringes,
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of every Description. **PRICE LIST ON APPLICATION.**

WORKS: PASSY-PARIS, FRANCE.
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1/- ALUMINIUM HOLDER, 7/6 doz. and bonus 2.

Sample of each for stamps 1/3.
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MAKERS OF

"K-Y" LUBRICATING JELLY

IN COLLAPSIBLE TUBES AND OF

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WOULD you like a show that incurred no risk and sold this line NOW? That's the interesting proposition we should like to tell you about if we may.

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CLEAR BLUE TINTED.—3 and 4 oz., 6 and 8 oz., 12 oz., 16 oz.

Plain or graduated.

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BLUE LOTION BOTTLES.—½ oz., 1 oz., 1½ oz., 2 oz., 3 oz., 4 oz., 6 oz., 8 oz., 12 oz.

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We send six gross assorted or otherwise, carriage paid within seven miles, and to certain stations. Particulars on application.

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Or ISLINGTON BOTTLE COMPANY, 7 New Inn Yard, Tottenham Court Road, London, W.

Orders sent to either establishment have attention.

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Radiozone (Oxygen) Baths

FOR the administration of Oxygen in a concentrated and highly nascent condition. Specially valuable in cardiac cases, with high arterial tension, in nervous and vaso-motor disturbance insomnia, and auto-intoxication.

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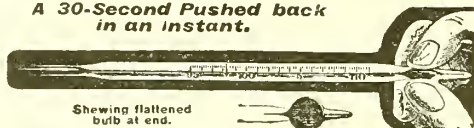
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Clinical Thermometer
The "REPELLO"

Requires no shaking down.

Guaranteed Accurate.

**A 30-Second Pushed back
 in an instant.**

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 Selling
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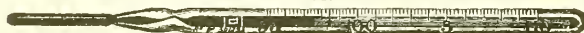


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NEW IMPROVED LENS FINDER

The only Easy Reading Magnifying
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IN FOCUS.



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SELF-FIXING BOTTLE CAPS
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 High-class Finish, at Lowest Prices.

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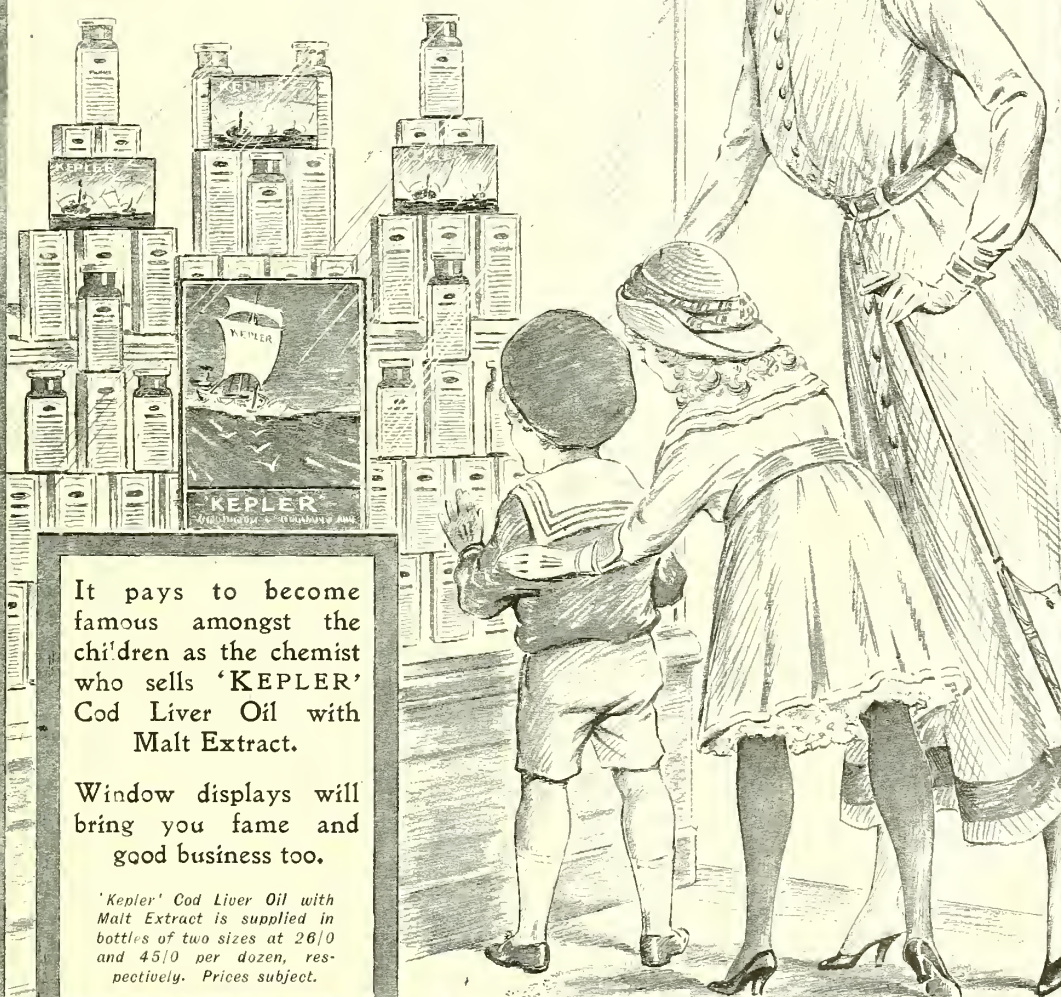
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'KEPLER' COD LIVER OIL WITH MALT EXTRACT

(TRADE MARK)

A
Seasonable
Display



It pays to become famous amongst the children as the chemist who sells 'KEPLER' Cod Liver Oil with Malt Extract.

Window displays will bring you fame and good business too.

'Kepler' Cod Liver Oil with Malt Extract is supplied in bottles of two sizes at 26/0 and 45/0 per dozen, respectively. Prices subject.



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FLEXOIDS.
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EXTRAITS AUX FLEURS.
ESSENTIAL OILS.
POMADES (FLORAL).
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A Weekly Journal of Pharmacy and of the Chemical
and Drug Trades
ESTABLISHED 1859.

The CHEMIST AND DRUGGIST is in circulation and reputation the leading journal addressing the Chemical and Drug trades in the British Empire and other countries in the Old and New Worlds. It is the official Journal of eighteen Chemists' Societies in Australia, Ireland, New Zealand, South Africa, and the West Indies.

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Twelve Shillings and Sixpence a year in advance, post free to any part of the world, including a copy of *The Chemist and Druggist Diary* next published. Subscriptions may begin any month. Single Copy, 6d.; Summer or Winter Number, 1s.; *Diary* 3s. 6d. Postal orders and cheques to be crossed "Martin's Bank (Limited)."

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Head Office: 42 CANNON STREET, LONDON, E.C.

Telegrams: "Chemicus, Cannon, London." Telephone 3617 Central (three lines).

Branches: ADELAIDE, MELBOURNE, AND SYDNEY, AUST.

CONTENTS: No. 33 (Series No. 1912), Vol. 88.

PAGE	PAGE
Association Affairs	46
Australasian News	37
Births	39
Books, New	40
Colonial and Foreign News ..	38
Correspondence:	
Merthyr Pricing; Are we	
Downhearted? What	
Ought I to Charge?	
The Sale of Petrol;	
Chemists' Assistants'	
Salaries	51
Subscribers' Symposium ..	51
Legal Queries	51
Miscellaneous Inquiries ..	52
Deaths	39
Deaths of Arrangement	38
Editorial Articles:	
U.S.P., IX.	42
Overseas Trade in August	43
What do Doctors Want?	
Tightening the Blockade;	
Sale of Medicated Wines	44
English News	34
European War	33
Inflammable Liquid Act	
(N.S.W.)	38
Insurance Act Dispensing:	
Grimby Chemist Removed	45
Local Reports	45
Appeal to Local Associa-	
tions	45
Scottish Tariff	46
Irish News	34
Legal Reports	38
London Chamber of Com-	
merce	36
Marriages	39
Medical Cleanings	47
Military Tribunals	34
New Companies	39
Observations and Reflections	41
O.F.S. Pharmacy Council ..	37
Personalities	44
Photo Salon	Col. Supp.
Retrospect	52
Scientific Progress	47
Scottish News	36
South African News	37
Syr. Ferri. Phos. By C.	
Umney	52
Trade-marks	48
Trade Notes	39
Trade Report	48

A Final Application.

THE Publisher informs us that Saturday, September 23, is the last day upon which he can receive advertisements for insertion in the *C. & D. Diary*, 1917. As a Text-book this annual is used all over the world, especially in the British Empire, and the 1917 edition promises to eclipse all that have gone before it as a business book of commercial, legal, pharmaceutical, and technical information. We particularly remind business houses that the Buyers' Guide is a systematic index to the advertisements, hence it is not compiled until these are in every way complete. No proofs can be submitted of advertisement "copy" received after Thursday, September 21, therefore advertisers should communicate with the Publisher at once by telephone, telegraph, or post. The addresses are given above.

Wills.

MR. BERNARD LANCASTER, Rupert Road, Sharrow, Sheffield, late pharmacist to the Sheffield Insurance Committee, left 3,282*l*.

THE LATE SIMON LEWIS, oil merchant, 305 Mile End Road, E., who died on July 20, left estate of the gross value of 10,711*l*. 2*s*. 11*d*., of which 9,571*l*. 15*s*. 3*d*. is net personality.

European War News.

Prohibited Exports and Imports.

FRANCE.—A decree of the Minister of Finance provides that the following articles (which were prohibited to be exported from France by the Presidential decrees of July 23 and August 2) may, by way of exception, be exported or re-exported from France without special authorisation, when consigned to the United Kingdom, the British Dominions, Colonies, and Protectorates, and certain other countries: Acetone; animal wax, rough or worked; coffee extracts; menthol (essence of peppermint); monazite (ore of cerium, lanthanum, thorium); talc, steatite (tailor's chalk, Briançon chalk, etc.); tea.—A Presidential decree prohibits the exportation and re-exportation from French Colonies and Protectorates (other than Tunis and Morocco) of talc and steatite (tailor's chalk, Briançon chalk, etc.), and (2) tobacco of all kinds—which articles were prohibited to be exported from France by the decrees of August 2 and 7.

NETHERLANDS.—The decree regarding the exportation of fats has been amended as follows: The exportation of tallow and fatty acids, paraffin, Borneo tallow, China tallow, Japanese tallow (Japanese vegetable wax), ozokerite and ceresine (including montane wax), and of waxes of vegetable origin, such as carnauba wax, and of mixtures or preparations of these substances is prohibited. Another decree prohibits the exportation of compositions that contain phosphoric acid and of substances that can be used for the preparation thereof.

SWEDEN.—Leather polishes, not containing spirits, pine resin, spruce resin, petroleum pitch, and stearin pitch, have been added to the list of prohibited exports.

UNITED KINGDOM.—Bleaching-powder has been removed from "C" schedule and placed in "A," which means that the export is prohibited to all destinations. The item (B) waxes, mineral and vegetable (except carnauba), and composite waxes, now includes "animal." Albumen (C) is a new heading, and is substituted for (C) egg, yolk and liquid, and albumen. Strontium sulphate has been removed from "C" to "B" schedule.

Personalia.

MR. J. A. E. CRAWFORD, chemist, South Melbourne, is a staff-sergeant compounder in the Australian Contingent, and has come to Europe for duty.

MR. GEORGE MASSIE, formerly assistant with Mr. J. T. T. Rolfe, chemist and druggist, Market Place, Faversham, who joined the Australian Expeditionary Force early this year, has been invalided home from Egypt.

CORPORAL F. J. GOLD, pharmacist, formerly of Market Place, Crewkerne, Somerset, is in a Liverpool hospital suffering from spinal injuries caused in France by the collapse of a trench during a bombardment.

SECOND-LIEUTENANT HENRY K. BUSH, son of Mr. Henry W. Bush (Henry W. Bush & Co., Ltd.), Rembrandt Works, 32, 34A Commercial Street, London, E., is a prisoner of war at Gütersloh, Prussia.

When war broke out young Bush, although under age, enlisted as a private in the R.A.M.C., and spent some ten months in France. In December 1915 he returned to England to take up a commission in the 20th King's (Liverpool) Regiment, and returned to the Front again in May last. Being an excellent German linguist, he repeatedly crawled out at night to the enemy's trenches to obtain information by listening. This effort would take about two hours, and was not without considerable personal risk. Again and again the enemy threw up star shells, and it was necessary at once to lie perfectly flat for fear of being observed. On July 30 a very fierce fight, in which the King's (Liverpool) took a leading part, occupied the whole day. Lieutenant Bush led out about forty men and brought back three. Later, having one man left, in a dense fog, he lost his bearings and walked straight into the enemy lines, where he was "relieved of his revolver but had his walking-stick returned" to him. He is now at Gütersloh, where he is courteously treated, but writes pressingly for food-stuffs to be sent out to him.



B

PRIVATE J. W. MCKAY, of the Scots Guards, who was with W. Paterson & Sons, wholesale druggists, Aberdeen, was reported as missing since September 27, 1915, and is now officially presumed to be dead. He was twenty-one years of age.

MR. W. TYRIE TURNER, son of Mr. J. Tyrie Turner, L.P.S.I., Carrick-on-Suir, joined last year the 4th Battalion of the Royal Irish Regiment as a private, and has now received a commission as second-lieutenant in the same regiment.

SUB-LIEUTENANT HILDRETH GLYN-JONES has sufficiently recovered from the dysentery attack with which he was seized in Gallipoli as to be able to fill a position offered to him by the Ministry of Munitions during the last period of his convalescence.

CHARLES BARKER was among the wireless operators who went down on H.M.S. *Black Prince* during the Jutland naval battle. Prior to joining up, Barker was with Mr. Jas. Attenborough, chemist and druggist, Melton Mowbray. He was eighteen years old, and gave promise of a good pharmaceutical career.

Miscellaneous.

JONES BROS., chemists and druggists, Brynmawr, Breconshire, have come to the assistance of the local War Committee by offering to dispense prescriptions brought to them by dependants of local soldiers and sailors free of any cost until a new scheme is drawn up.

SHIPMENTS TO ARCHANGEL.—Intending shippers to Archangel are reminded of the early closing of the Archangel shipping season. Applications for space should reach the Secretary, Transportation Department, Russian Government Committee, India House, Kingsway, W.C., not later than September 20.

DEMAND FOR SPIRIT.—Scottish spirit-distillers have had an unexpectedly rapid increase in the Government demand for strong spirit, with the result that approximately 80 per cent. of the total output goes to Government factories, and one Scottish distillery has been entirely taken over, while three more are to go the same way soon.

BENZIN AND TOLUOL SUPPLIES.—With the object of securing for shipment to Great Britain all available supplies of benzin and toluol for the manufacture of explosives the Australian Government has decided to prohibit the use of raw tar for road formation. The Government intends to arrange for the suspension of operations at all the tar-distilling works.

ENEMY BLACK LIST.—A list of over a hundred additional names to various black lists has been issued by the Foreign Office. In a list of the Philippine Islands we notice the Manila Drug Co., Manila. The countries dealt with and the number of firms in each are as follows: Argentina (3), Bolivia (2), Brazil (14), Chili (3), Colombia (1), Ecuador (1), Greece (3), Iceland and Farøe Islands (5), Japan (3), Liberia (1), Morocco (1), Netherlands (14), Netherlands East Indies (1), Norway (4), Persia (1), Peru (1), Philippine Islands (6), Spain (10), and Uruguay (1).

BRITISH CLAIMS AGAINST THE ENEMY.—It is of great importance, says a Royal Proclamation published on September 8, that full information should be obtained with regard to property in enemy territory belonging to British subjects, and also with regard to their claims against enemy persons and Governments. Therefore British subjects "who are entitled to property of any description whatsoever in enemy territory, or to any interest in such property, or have claims against enemy persons or enemy Governments, are commanded forthwith to make returns." The officers appointed to receive these returns are: (a) In the case of property in enemy territory and of claims against enemy persons, the Public Trustee, Kingsway, London, W.C.; (b) in the case of claims against enemy Governments, the directors of the Foreign Claims Office, Foreign Office, London, S.W. The returns must be made in such form and with such particulars as these authorities require.

Military Tribunals' Decisions.

The following are additional to cases already reported: ASHFORD (KENT).—Fourteen days' exemption only was allowed to Louis E. Chambers, assistant to Mr. F. Stedman, chemist and druggist, High Street.

DEVON.—Claude E. Church, assistant to Mr. M. T. Foster, Ph.C., appealed from the decision of the local Tribunal, which had refused to exempt him till after his examination; but the decision was now confirmed.

DORSET.—On the application of the Military Representative, the exemption previously granted to Mr. L. C. Munn, chemist and druggist, Stourport, was withdrawn.

LANARKSHIRE.—Conditional exemption was allowed to an assistant who is engaged on Insurance dispensing and hopes to pass the Minor in October.

LEWES.—A. E. Rodgers, assistant to Councillor E. Wyborn, chemist and druggist, was exempted on condition that he join the Volunteer Force.

OLD SWINFORD.—Conditional exemption was granted to Jesse Chance, assistant to Mr. G. S. Simpkins, chemist and druggist, High Street.

REDHILL.—Temporary exemption, conditional on joining the Volunteers, was allowed to S. J. Lisney, in the employ of John Cross & Co., chemists.

ROCHDALE.—Mr. Leonard Etherington, chemist and druggist, Milnrow Road, whose case was supported by the Insurance Committee, received conditional exemption.

SHEFFIELD.—Mr. A. R. Fox, of Wm. Fox & Sons, botanic druggists, has been exempted till December 31.

SHOREDITCH.—Thos. Nicholls & Son, surgical-instrument makers, Kingsland Road, failed to secure exemption for Percy Kesterton, a brass-turner engaged in the production of hypodermic syringes.

SOUTHBOROUGH.—Mr. George E. Green, chemist and druggist, obtained three months' exemption for his assistant, Mr. Horace Miles, chemist and druggist.

STOUEBRIDGE.—Conditional exemption was granted to T. E. Plumb, described as indispensable by his employer, Alderman W. R. Selleck, Ph.C., and also to Mr. Sydney Tooley, drug-department manager for Cooke's, Ltd.

TEDDINGTON.—Three months' further exemption was allowed to the son of Mr. W. J. Bray, chemist and druggist, Broad Street (assistant to his father), on condition that he continues in the V.A.D.

TROWBRIDGE.—Mr. J. A. Aplin, jun., chemist and druggist, employed by his father, received three months' conditional exemption.

WALLINGTON.—Mr. Charles Miller, manufacturing chemist, obtained conditional exemption for his manager, the only person in his employ who could work the machinery.

WALTON-ON-THAMES.—Mr. F. Cherry, Ph.C., High Street, made a final appeal for George Marshall, a qualified assistant, and was granted a month's exemption for him.

WORKING.—Mr. Percy B. Phillips, chemist and druggist, manager for Squire & Co., was allowed six months' exemption.

WOODHOUSE.—A drug-store proprietor at Handsworth pleaded that he is the only druggist in the locality, and received three months' exemption.

YORKSHIRE (WEST RIDING).—Mr. W. R. Maud, chemist and druggist, Pontefract, appealed for his branch manager, Mr. T. F. Collings, but was only granted till November 1 to find a substitute.—Mr. T. C. Binks, chemist and druggist, Pontefract, obtained an adjournment for two months for his assistant, Henry Jackson.

Irish News.

Subscribers are invited to send to the Editor newspapers containing matters of trade interest. The items should be indicated.

Brevities.

At an inquest on the body of a child at Mitchelstown, co. Cork, the evidence showed that the infant died from poisoning, and that the grandmother gave it the poison in mistake for worm-powder.

Dr. Kelly has notified the Enniscorthy Guardians that there are no bandage or dressing materials in the Enniscorthy dispensary, and the stock of drugs is almost exhausted. The Clerk said the Local Government Board requested Dr. Kelly to write a fresh requisition for the drugs, and this he declined to do. It was agreed to refer the matter to the Local Government Board.

The creditors of Mr. Michael J. Foley, Ph.C., Dublin, met in Dublin on September 6, when it was reported that the liabilities amounted to 778l. 5s. 3d., and assets were valued at 150l. 9s. 5d. The debtor made an offer of 10s. in the pound, payable by bills at six, twelve, eighteen, and twenty-four months. Among the creditors are: Apothecaries' Hall (Dublin), 9l.; Ayrton, Saunders & Co., Ltd., 22l.; Blyton, Astley & Co., 13l.; Gustav Boehm, 9l.; Robert Blackie, 6l.; Samuel Boyd, 122l.; Thos. Christy & Co., 9l.; Edward Cook & Co., Ltd., 4l.; Evans Sons Lescher & Webb, Ltd., 39l.; C. Tolkien & Co., 6l.; Hayes, Conyngham & Robinson, Ltd., 81l.; Jeyes', Ltd., 6l.; F. Jackson & Co., 6l.; H. Quelch & Co., 16l.; Solport Bros., 5l.; Warrick Bros., Ltd., 6l.; White Brand Co., 5l.

IN VIEW of the general scarcity of rennet in all parts of the world, the National Dairy Association of New Zealand has decided to form a company, with a capital of 20,000l., for the manufacture of rennet.

English and Welsh News.

Subscribers are invited to send to the Editor newspapers containing matters of trade interest. The items should be indicated.

Salvarsan.

On June 24 we reported the hearing by Mr. W. Temple Franks (Comptroller-General) and Sir Cornelius Dalton of an application by Evans Sons Lescher & Webb, Ltd., Liverpool, for the suspension of trade-marks 310235 ("Salvarsan") and 340387 ("Neo-salvarsan"), and for a licence to use patents 3934/07, 13485/10, 5595/11, 7865/12, and 8219/12, under which salvarsan and neo-salvarsan are made. The Farbwerke vorm. Meister, Lucius & Brüning were the owners, but Lake (Curatorium der Georg Studienziftung) was the grantee of 3934/07 patent. The Board of Trade has now decided to suspend the registration of the trade-marks in favour of Evans Sons Lescher & Webb, and to grant them a licence to use the patents.

Medical Practice in the Straits Settlements.

Section 17 of the Medical Act, 1886, provides for medical practitioners of the United Kingdom practising in any British Possession named in any Order in Council. This is now done as regards the Straits Settlements by the following Order made by His Majesty on September 8, and then gazetted: "Whereas the colony of the Straits Settlements is a British Possession within the meaning of the said Act, and, in the opinion of His Majesty, affords to the registered medical practitioners of the United Kingdom such privileges of practising in the said colony as to His Majesty seem just: now, therefore, His Majesty doth hereby, by and with the advice of his Privy Council, order and declare that the second part of the Medical Act, 1886, shall be deemed to apply to the colony of the Straits Settlements from the date of this Order."

Census of Tanning-materials.

The "London Gazette" announces that an Order has been made by the competent military authority, requiring all persons having in their custody or under their control any stocks or having made contracts for the supply of chestnut extract, oak extract, quebracho extract, hemlock extract, myrabolams, myrabolan extract, mimosa bark, mimosa extract, gambier, divi-divi, algarobilla, valonia, or sumach to furnish to the Director of Army Contracts (R.M.S.) at Imperial House, S.W., particulars of their stocks, their contracts on September 9, and their requirements for the five months September 1916 to January 1917. Any person concerned who has not yet received a form on which to make the required return should apply at once to the Director of Army Contracts (R.M.S.) at the above address. Any person failing to comply with the Order may be proceeded against for an offence against the Defence of the Realm (Consolidation) Regulations, 1914-16.

Unemployment Insurance.

Under the National Insurance (Unemployment) Acts, 1911 to 1916, the following decisions (in addition to those mentioned in last week's *C. & D.*, p. 46) have been given by the Umpire. *Contributions are payable in respect of*

Workmen engaged in drawing or distilling essential oils or in manufacturing similar products synthetically. [1754X.]

Workmen engaged in the manufacture of all classes of soap, including soft soap, soap-powder, and toilet-soap, and including processes such as milling, perfuming, stamping, wrapping, or otherwise finishing for sale. [1755X.]

Fatty-acid workers, stearine-makers, wick-preparers, moulders, and all other classes of workmen and labourers engaged in the manufacture of candles and nightlights. [1773X.]

Contributions are not payable in respect of

Workmen engaged in the manufacture of perfumery and not covered by decision 1754X. [1756.]

Workmen employed by a firm of soapmakers and engaged in printing, stamping, and cutting cardboard cartons for packing soap. [1761.]

Workmen employed by a firm of soapmakers and engaged in filling, labelling, and packing perfumes in bottles. [1762.]

Any representations in regard to the above should be forwarded to the Registrar, Office of the Umpire, 47 Victoria Street, London, S.W.

Medicinal Herbs.

A correspondent of "The Times" has discovered in one of the Eastern Counties a drying-station of the medicinal-herb industry. It was an old mill adapted to suit. Bunched leaves of medicinal herbs were hung row after row from the heavy beams, drying in the breeze from the open door. Biscuit-tins all over the floor stored the smallest

plants, and he mentioned chamomile and colchicum-seed among these. Different rooms were used for various processes. One department, set apart as a kiln, in which is maintained a heat of 120°, was hung with burdock-roots. On the ground floor was "the steep," where plants were washed before being hung from the rafters of the biggest loft. In every room were large sacks awaiting either the herb-collector or someone deputed to despatch them to a London dealer. Not far from the mill were small plots where garden plants are grown for test experiments. These plots yield valuable information, and prove that some of the most-needed herbs can be grown on soil insufficiently fertile for ordinary cultivation: belladonna, henbane, datura, peppermint, melilot, pennyroyal, woodruff, agrimony, and yarrow thrive where other plants wither. The difficulties in the cultivation of belladonna have been overcome in East Anglia by interspersing plants with rows of scarlet runners which, shading the poisonous herb, cause it to grow rapidly. The writer tells how convalescent soldiers staying in the neighbourhood volunteered to collect herbs, and 3 cwt. of foxglove-leaves was one of the results.

Contracts.

The following have been notified during the past week: Camberwell Guardians.—S. Maw, Son & Sons, for replacing certain surgical instruments at the infirmary; the Apothecaries' Society, for drugs, tinctures, etc., for three months, at 22½ per cent. off list prices, and 3 cwt. of carbolic acid, at 2/ 9s. per 28 lb.; Middleton Bros., for ¾ gross of Brooke's soap, at 2/ 1s. 9d. per gross.

Eton Guardians.—Griffith & Walden, Slough, for chemists' goods.

St. Faiths Guardians.—The Sanitas Co., for soap.

Stamford Guardians.—Mr. Martin Oldfield, chemist and druggist, for drugs.

Wandsworth Guardians.—The General Purposes Committee recommends in regard to tenders for drugs, surgical instruments, medical and dispensary sundries, and medicine-bottles that the present contractors be asked whether they would be prepared to carry on the present contracts for a further period of six months; also that no tenders be invited for set periods in respect of Primrose and mottled soap, soft soap, and carbolic soft soap, and indiarubber goods, but that the officers be instructed to obtain quotations for supplies as required.

Liverpool.

Mr. William P. Evans (President of the Liverpool Chemists' Association) is spending a brief holiday on the Harlech golf course.

The winter programme of the Liverpool Chemists' Association is in a forward condition, and may be expected to pass through the post shortly.

At a meeting of the local Pharmaceutical Committee on Tuesday an expression of condolence with Mr. and Mrs. W. H. Saunders on the death of their son, Lieutenant W. G. Saunders, was recorded.

Among the gentlemen who are being approached for nomination to the Lord Mayoralty of Liverpool is one who bears a name long associated with the chemical-manufacturing industries of South-West Lancashire.

Mr. D. H. Evans, Lodge Lane, who has contrived to find a painter for the exterior of his pharmacy—a feat in wartime—devotes his three windows this week to the Manse cure (a pictorial display), Ayrton's lemonade tablets, Hygeia salt, and "Allenburys" foods.

A capital crayon portrait of Sir Edward Evans, which has hung for some years on the walls of the Liverpool Junior Reform Club, has been returned, in conformity with a condition of its presentation, to the offices of the Liverpool Federal Council. Many of the members of the Club are on active service, and its future character may be rather social than political.

"Capturing the German Drug-trade: Reaping the Belladonna-harvest at Dorking" is the title of a leading film exhibited this week at the Tunnel Road Picture Palace. The district is chiefly inhabited by the working class. When the film was mentioned to a pharmacist of the district he expressed pleasurable surprise that its subject (which was dealt with by Mr. Beetham Wilson, Dorking, in the *C. & D.* Summer Issue) had attained a popular interest.

Shaftesbury.

Attercliffe evidently has no need for a botanic pharmacy, as the branch recently opened by Wm. Fox & Sons has been closed.

Mr. W. Bcaulah, chemist and druggist, district manager of Boots, Ltd., and a member of the Pharmaceutical Committee, will shortly resume work after an absence of some months through illness.

The Sheffield Secondary School session will begin on September 25, and pharmacy students may register between 7.30 and 9 P.M. from September 18 to 22. Mr. E. Preston, Ph.C., the lecturer, is willing to advise intending students.

The issue of prescription-books to war dependants has greatly fallen off. In the early days of the scheme the number was nearly 300 a month, and throughout it has averaged 177. The last monthly issue was only seventy-nine. In future no book will be issued to a childless wife, or to a wife with two children if she is in receipt of over 24s. a week, nor to a wife with a larger family if her total income exceeds 28s. weekly.

Miscellaneous.

BRADFORD TOBACCONISTS are complaining that chemists have taken to selling cigarettes, etc.

MANCHESTER CORPORATION has passed the plans for a new workshop in Ashton New Road, Clayton, for C. J. Schofield, Ltd., manufacturing chemists.

WILLIAM BLAYLOCK, departmental manager to a chemist, was ordered by the Nottingham Magistrates on September 8 to be given over to the military authorities, he having failed to report himself.

A CHEMIST'S APPRENTICE, William John Sherry, was charged, at Exeter Police Court on September 9, with failing to report himself for Army service, and was handed over to the military authorities.

DEFENCE OF THE REALM ACT.—At Workington on September 6 Mr. G. Woodhouse, chemist and druggist, Pow Street, was fined 1*l.* for failing to display on his premises a list of his male employees of military age.

PHARMACIST VOLUNTEER TRAINING CORPS.—During the ensuing week the company will parade at the Herne Hill entrance to Brockwell Park, for field work, on Sunday at 10 A.M., and on Wednesday and Thursday at 3 P.M.

CAMBERWELL ERUPTION.—At the resumed inquest on the victims of this disaster, Major Cooper Key, Chief Inspector of Explosives, expressed the opinion that the explosion was caused by the fall of an acetylene-cylinder generating sparks which ignited the gas. The inquiry was further adjourned.

LIGHTING REGULATIONS.—At the South-Western Police-court, London, Mr. Ernest Atkins, Ph.C., 71 East Hill, Wandsworth, was fined 10*s.* for allowing a bright light to shine from an upper window of his premises.—At Bridlington, Mr. John Hinchcliffe, manager of Swift's Drug-stores, Prince Street, was fined 20*s.* for failing to screen the shop-light from the street.

POSTAGE TO CHINA.—On and from October 1 the postage to be prepaid on letters for Amoy, Canton, Chefoo, Foochow, Hankow, Hoihow, Ningpo, Shanghai, Swatow, and Tientsin, where there are British Post Office agencies, will be the ordinary international rate of 2½*d.* for the first ounce and 1½*d.* per ounce or fraction of an ounce thereafter, instead of 1*d.* per ounce as at present. The international rate of postage will then apply to letters for all parts of China except Weihaiwei.

BRISTOL DRUGS.—During last quarter the Bristol public analyst examined seven samples of Epsom salt, three of tartaric acid, three of citric acid, two of boric ointment, and three of mercury ointment. Two of the latter ointment were informal samples; one contained 53.3 per cent. excess of mercury, and the other was deficient by 47.7 per cent. The third sample was 48.6 per cent. below standard, and the vendor was fined 1*l.* An informal sample of "Epsom salt" proved to be 100 per cent. sodium sulphate. All the other drugs were pure.

POISONINGS.—Only two cases of poisoning have been notified this week. In one case the wife of a wine-merchant at Brixton, who was a chronic invalid and had become blind, committed suicide with laudanum while of unsound mind. In the second case (which was also suicide during temporary insanity) a linguist and translator living with his mother at Clifton, Bristol, took veronal. At the inquest on the latter the Bristol Coroner (Mr. A. E. Barker) commented on the danger of using veronal. He thought the drug should only be supplied on a doctor's prescription and not repeated except on a fresh order from the doctor.

MEDICINAL-HERB CULTIVATION.—The Lord Mayor of Norwich presided at a large and influential meeting in that city on September 9 in furtherance of the movement for the home production of medicinal herbs, when Mr. E. M. Holmes, F.L.S., Curator of the Pharmaceutical Society, gave an interesting and informative address on the cultivation, gathering and preparation for use of botanical drugs suited to the locality, making special mention of belladonna, caraway, chamomile, and colchicum. He also dealt with unofficial plants, such as agrimony, burdock,

coltsfoot, wormwood, etc. After discussion it was decided to form a Herb-growing Association for the Eastern Counties, and a Committee was elected for that purpose.

LONDON PHARMACISTS AT BOWLS.—On Thursday, September 7, Mr. A. R. Keith, captain of the Eastern District team of bowlers, went to Wood Green for a friendly return game with the North London Section. In the tournament game between these two districts the Northern men won with a good margin in their favour, but on this occasion the Eastern bowlers won by 13 points, the scores being:

NORTHERN.				EASTERN.			
1. Mr. Payne	}	...	9	1. Mr. Syles	}	...	35
2. Mr. Anderson				2. Mr. Hatfield			
3. Mr. Bristow				3. Mr. Thorburn			
4. Mr. McRostie				4. Mr. Keith			
1. Mr. Hearle	}	...	29	1. Mr. Goode	}	...	16
2. Mr. Dunn				2. Mr. Coulton			
3. Mr. Perrett				3. Mr. Hamilton			
4. Mr. Grassick				4. Mr. Wilson			
38				51			

On No. 1 rink the Northern men were, from leader to skip, outclassed; but it was the other way about on No. 2 rink, where Skipper Wilson was not in his best Highland form, although Mr. Hamilton (West Kensington) played a sound game. The teams had tea together after the game, and Mr. Duncan Bowie expressed the sentiments of local bowlers, and his brother Scot, Mr. Keith, acknowledged on behalf of the visitors.

LONDON CHAMBER OF COMMERCE.—A meeting of the Chemical Trade Section (Druggists' and Pharmacists' Sub-Section) of the London Chamber of Commerce was held at the offices on September 12. Mr. T. Tyrer (Chairman of the Chemical Trade Section) presided, and there were present: Messrs. H. R. Arnold (Burgoyne, Burdidges & Co., Ltd.), C. A. Hill (British Drug Houses, Ltd.), T. E. Lescher (Evans Sons Lescher & Webb, Ltd.), T. Mabey (Parke, Davis & Co.), E. J. Millard (C. J. Hewlett & Son, Ltd.), W. Ransom (W. Ransom & Son, Ltd.), J. Treadaway (F. H. Faulding & Co., Ltd.), W. P. Want, and Charles E. Musgrave (Secretary). The Chairman proposed that Mr. C. A. Hill be elected Chairman of the Sub-Section, and Mr. E. J. Millard, in seconding, said that no better person than the Chairman of the Drug Club could be selected for so important a position; they all knew Mr. Hill and his work thoroughly. Mr. Hill was unanimously elected. The Chairman next submitted a proposal, which was also carried, "That the Chairman of the Chemical Section and the Chairmen of the four Sub-Sections be appointed to act as an emergency or consultative Committee to consider matters of urgency and to make any recommendations thereon which may be deemed advisable." The question of trade after the war was then briefly discussed, the Secretary, at the invitation of the Chairman, giving a concise statement of what had already been done by the Chamber, especially referring to the work of the Special Committee, which was embodied in a report circulated to the meeting. The Secretary urged that the concrete views of members of particular trades were wanted. It was probable that new machinery would have to be set up in order to carry out a programme of practical measures, as it would not be in the province of the Board of Trade to render such assistance. A special meeting of the Chemical Trade Section is to be held for the purpose of a general discussion on "Trade after the War."

Scottish News.

Subscribers are invited to send to the Editor newspapers containing matters of trade interest. The items should be indicated.

Brevities.

Other four cases of infantile paralysis are reported in Aberdeen.

Most dispensing-chemists have received from headquarters in Edinburgh a printed circular in regard to the report on the Departmental Committee's Report, which has been lodged with the Insurance Commissioners, as well as with the Secretary of each Pharmaceutical Committee in Scotland. It is a strictly private and confidential document, but it is understood that it completely justified the position taken up by the Standing Committee last December. It is generally expected that continuance of the present system until the end of the war is inevitable to the authorities.

Edinburgh.

Messengers of either sex are becoming increasingly scarce, and several chemists are trying to "educate their customers" to carry their own parcels.

It becomes increasingly evident that British soaps are catching on. With soldiers especially many quondam popular brands of foreign origin are out of it.

Panel doctors, or some of them, are keeping down their drug accounts with a vengeance. In several cases of late, where a patient has required certain remedies, the doctor prescribes an injection, for instance, on the N.H.I. form, and orders capsules or a mixture on a private-patient sheet of notepaper.

Fifeshire.

The Poor-law authorities are now adopting forms similar to the Insurance Act style for medical prescriptions.

Dysart Town Council have appointed Mr. Andrew Dargie, Dundee, to be public analyst in succession to the late G. D. Macdonald.

In some districts the medical practitioners have agreed to attend soldiers' and sailors' dependants for a cumulative payment of 3*d.* per week.

In spite of the stringent regulations, photographic work is on the increase. Most of it is for the military, so that Defence of the Realm is not a barrier.

Glasgow and the West.

Many wholesale houses and retail chemists made use of the recent brilliant sunshine for bleaching vegetable and animal oils.

Another Chinaman has been fined 5*l.* in Glasgow Sheriff Court for being in possession of 6 lb. of opium prepared for smoking.

The staff of Lorimer & Moyes, Ltd., chemists' sundries-men, have contributed 5*l.* 16*s.* 6*d.* to the Scottish Branch of the British Red Cross Society.

The favourite shades for obscuring chemists' lights seem to be cut from the blue wrapping-paper used for wool and lints. The effect is good, and the cost is *nil*.

Chemists and druggists are being reminded by the local authorities that it is necessary under the Defence of the Realm Regulations to post up the names of all male employes of military age. This must be done although all the men are exempted.

A British Industries Fair, promoted by the Corporation, is to be held in Glasgow from February 26 to March 10, 1917 (synchronising with the third Board of Trade Fair in London). Admission will be open to trade buyers only. Two sections will appeal specially to chemists—foodstuffs (including farinaceous and medical foods, food extracts and essences, and beverages) and domestic chemical products (comprising household soaps, sodas, washing-powders, starches, polishing and cleaning preparations, and disinfectants).

South African News.

(From "C. & D." Correspondents.)

"The Chemist and Druggist" is supplied weekly to members of all the Chemists' Societies in South Africa.

The Union.

SIX MONTHS' DRUG IMPORTS.—A considerable increase in imports of drugs, chemicals, and apothecaries' wares into the Union has taken place during the six months ended June 30, 1916, the total being 570,871*l.*, against 463,868*l.* for the corresponding period of 1915; apothecaries' wares were 70,296*l.*, against 68,774*l.* in 1915; and medicinal preparations 61,779*l.*, against 51,986*l.* in 1915.

Transvaal.

PERSONAL.—Mr. Hamilton Hugh Burrowes, chemist and druggist, who, as reported in the *C. & D.* of August 19 (p. 37), was fatally injured in Johannesburg by overbalancing and falling into the basement when sliding down a stairs bannister, served his apprenticeship in Anderson's Medical Hall, Lisburn, Ireland. He had volunteered and served throughout the German South-West African campaign under General Botha, first in the South African Veterinary Corps, and afterwards in the South African Mounted Rifles.

O.F.S. Medical and Pharmacy Council.

THE first meeting of the new Council was held at Bloemfontein on Friday, August 11, when the chief business was the election of a President. All the members were present except Dr. Baumann, who arrived after the election. Dr. de Kock was voted to the chair for the purpose of the election. The only two candidates for the position were Dr. Manning—proposed by Dr. Johnson, and seconded by Mr. Hewitt, a pharmaceutical member—and Dr. de Kock—proposed by Dr. Targett-Adams, and

seconded by Dr. Friedmann. The ballot resulted in a tie of four votes for each candidate. Lots were then drawn, and Dr. Manning proved to be the successful candidate; he thereupon took the chair. A letter from the Acting Director of Medical Services was read, in reply to the letter communicating the Council's resolution that it is desirable that arrangements should be made as early as possible to enable pharmacists to attain commissioned rank in the Defence Force. The reply was to the effect that the resolution had been recorded in the Defence Department office as a matter for consideration on the next occasion on which amendments were to be made to the regulations for medical services.

Australasian News.

"The Chemist and Druggist" is supplied weekly to all the members of eight Chemists' Societies in Australia and New Zealand.

DUTIES ON DRUGS AND CHEMICALS.—The Association of British Manufacturers and their Representatives are discussing with the authorities proposed duties. It is stated that the items that most affect pharmacists are the following:

	1914 Tariff	Proposed Duty
Cresylic acid; crude creosote oil and crude tar oil; carbolic acid ...	Free & 5%	Free & 25%
Ammonia—viz., acetate, carbonate, anhydrous, and liquid ...	15% & 20%	15% & 50%
Ammonia, muriate and sulphate ...	Free & 5%	Free & 25%
Cyanide of potassium and cyanide of sodium ...	Free & 5%	Free & 20%
Tartaric acid, cream of tartar, and citric acid ...	Free & 5%	Free & 15%
Drugs and chemicals—viz., salicylic acid and other food-preservatives n.e.i.; salicylate of soda; sulphites and bisulphites of potassium; bisulphite of sodium, calcium, and magnesium; and foaming powders and liquids, including malto-peptone, yeast food, yeast-food preservatives, yeast nourishment, quillaia-bark, saponaris, glycyrrhizin and its compounds ...	20% & 25%	20% & 50%

Medicines:

(a) Pharmaceutical preparations, patent and proprietary medicines and other medicinal preparations; chemicals and drugs packed for use in the household n.e.i.; medicinal extracts; essences; juices; infusions; solutions, emulsions, confections, and syrups; pills, pilules, tabloids, solids, ovoids, tablets, capsules, cachets, suppositories, pessaries, n.e.i.; poultices, salves, cerates, ointments, liniments, lotions, pastes, and the like; medicinal waters and oils n.e.i.; and medicines for animals ...

(b) Spirituous ...

(Or according to the rates provided in Division I., whichever rate returns the higher duty.)

It is stated that higher duty could not be imposed on cyanides and the tartaric-acid entry without serious interference, but at least this must be allowed to let British manufactures in at all.

VENEREAL DISEASES.—The Commonwealth Report on Venereal Diseases suggests special legislation, and makes the following, among other, recommendations:

That it be unlawful for any person other than a legally qualified medical practitioner to treat any case of venereal disease. The treatment of venereal disease by quacks is a great evil, an admitted evil, but treatment by chemists, some of whom advertise specially, is also an evil. Proper treatment by them is impossible. The chance of early and complete cure is lost. The trade in proprietary medicines for venereal diseases, except under medical control, is costly and harmful to the public.

That all advertisements or published statements be prohibited concerning any remedy for venereal diseases or for any disease or weakness of the generative organs, including female or menstrual disorders, or concerning any special claim to skill in treating such diseases, with due protection for medical practitioners acting in good faith as specialists or acting for the advancement of medical science.

The Commonwealth Government is setting aside this year 15,000*l.*, to be distributed among the States—roughly 5,000*l.* each to Victoria and New South Wales, lodged on the basis of pound for pound voted by the State Ministries up to a maximum fixed for each State—to provide adequate facilities for the diagnosis and treatment of venereal diseases. The South Australian Government has had under con-

sideration a scheme for the treatment of sufferers, which has been abandoned temporarily owing to the shortage of medical practitioners. Public bodies in Victoria are urging the Government to take steps to combat the evil of such diseases.

THE INFLAMMABLE LIQUID ACT of New South Wales, assented to on February 22, 1915, is to be rigorously enforced, and wholesale drug-houses have been notified to apply for exemption or lodge objections. "Inflammable liquid" is defined as liquid petroleum, kerosene, and any oil, liquid, or spirit derived wholly or in part from any petroleum, shale, schist, coal, peat, bitumen, or any other similar substance, which has a true flashing-point of less than 150° F.; and any other liquid which the Governor, by proclamation in the "Gazette," declares to be an inflammable liquid. The Act divides "inflammable liquid" into "mineral spirit" and "mineral oil," and (a) "mineral spirit" means any inflammable liquid which has a true flashing-point of less than 73° F.; and (b) "mineral oil" means any inflammable liquid which has a true flashing-point of not less than 73° F. The flashing-point has to be determined with a special apparatus. Although "inflammable liquid" is limited to petroleum or similar products, the Governor can proclaim any other liquid to be an inflammable liquid. No more than 250 gals. of mineral oil or 16 gals. of mineral spirit may be kept in a licensed store or registered premises; not more than 4 gals. of mineral spirit may be kept in any one vessel, and all inflammable liquids shall be in substantial vessels of metal or other prescribed material, securely closed and stopped. Not more than 3 gals. of any mineral spirit may be kept for industrial purposes, except in a licensed store or in registered premises. Other precautionary measures are imposed, and one section prevents dry-shampooing with mineral spirit.

Colonial and Foreign News.

MALARIA-PREVENTION.—The head of the Sanitary Service has informed the "Echo de Paris" that to protect soldiers in Salonica against mosquitos they requested the Institut Pasteur to furnish a special ointment for the face and hands. This is put up in tubes, and is of the consistency of collodion, its odour is suggestive of tar, and it appears to have rendered services. M. Laveran, the Nobel prize-man, was consulted as to what dose of quinine could be daily administered without inconvenience. This was fixed at 40 centigrams (6 grains) per person. Twelve tons of quinine, as well as 400,000 ampoules of quinine injection, was shipped. About 5 per cent. of the men, however, suffered from malaria in June and July, but most cases were slight, and the epidemic, largely due to the intense heat, is now rapidly diminishing.

REPLACING FOREIGN MEDICINES IN RUSSIA.—The "Board of Trade Journal" (September 7) publishes a report from H.M. Commercial Attaché at Petrograd to the effect that by Decree of the Russian Minister of the Interior the following regulations governing the replacing of certain foreign medicinal products by preparations chemically corresponding to them have been issued:

(1) Foreign chemical preparations, such as aspirin, diuretin, pyramidon, thiozol, etc., which circulate in the Russian market under these trade names, may be replaced by preparations of identical chemical composition, subject to the subjoined regulations. (2) Chemists may issue the corresponding preparations under their chemical designations whenever these preparations under their trade names ("aspirin," "diuretin," etc.) are out of stock, marking on the prescription their real chemical designations. (3) In making the substitution referred to in Clause 2, chemists must charge according to the scale of prices for these preparations under their chemical designations; for instance, *acidum acetyl-salicylicum* must be charged for at the price marked in the scale for *acidum acetyl-salicylicum*, and not at the price for aspirin. (4) Chemists' jars marked with these trade names (Clause 1) must contain only the preparations indicated by the inscription, but the name of the maker of the preparation—for instance, "Bayer"—need not be on the jar. (5) To meet the demands of consumers for the preparations of a particular firm, Russian or foreign, the preparations in question must be kept at chemists' stores in the original trade packing, or in separate receptacles with the appropriate inscription.

A German newspaper reports with delight that Petrograd was in August destitute of medicine. This report is the first Teutonic effect of Russia's freedom to buy what she wants in any market of the world. She is getting what she wants.

A SOLDIER complained to a chemist the other day that his teeth only started to decay after he joined the Army—when he had been compelled to brush them.

Legal Reports.

Window-dressing as an Art.—In the City of London Court, before Judge Rentoul, K.C., on September 7, a claim was made by Mr. Alfred Allender, the Lawn, Shepherd's Bush, against Mr. C. M. Portellas, 12 Holborn, for 87. two weeks' salary. The plaintiff said he answered an advertisement which the defendant inserted for a window-dresser, and was engaged at 4*l.* a week. The next day he was told by letter that he need not attend, but as he had given notice to his previous employer he now claimed two weeks' wages. The defence was a denial of the engagement because the plaintiff was a salesman, not a window-dresser. Plaintiff said he had been an expert window-dresser for thirty years. Judge Rentoul, K.C., found for the plaintiff.

Shops Act.—An Edinburgh drapery company who have a hairdressing department in the business have succeeded in an appeal to the Court of Session there against a conviction under the Shops Act for not closing the hairdressing department on Wednesday for the half-day, that being the day fixed by the local authority. They said they have 700 employés, six of them in that department, and the whole shop is closed on Tuesdays for the half-holiday. The Lord Justice-General said the appellants had complied not only with the spirit and intention, but also with the letter of the Statute. The order did not apply to a case like the present, where the shop was in the occupancy of one person who carried on therein a variety of different businesses.

Pharmacy Act, 1868.—At the Padiham Police Court on September 12, William Taylor, chemist and druggist, 61 Burnley Road, Padiham, near Burnley, was summoned for selling strychnine without labelling the bottle distinctly with the name of the contents, the word "Poison" on it, and the name and address of the seller. Defendant pleaded guilty. Mr. Mossop, who prosecuted on behalf of the police, stated that the proceedings were taken under Section 17 of the Act. On June 28 Dr. Shotton (Hapton) called at defendant's shop. There was some dispute as to exactly what was ordered, but there was no dispute as to what was supplied, which was strychnine. Dr. Shotton left the shop and went to his surgery, where he made up a bottle of medicine for which he required morphia, but he put a part of the strychnine into it. Fortunately, the bottle of medicine was never delivered. The doctor then took a dose himself. He left the surgery, and had got as far as the Griffin Inn, when the landlady beckoned to him to come in, as she wanted a certificate for the death of her father. The doctor went inside, but immediately after was taken ill, and was supplied with mustard and water. He died very shortly after. The suggestion of the prosecution was that if the bottle had been labelled properly the doctor would have seen it was not morphia. No doubt defendant would tell the Magistrates what he had told another Court (*C. & D.*, July 8, p. 36), and Mr. Mossop commented upon the whole matter. Defendant expressed his regret that in a moment of inadvertence he allowed the bottle to be taken from his hand when he was corking it up. One did not expect anything to occur such as had happened when selling an article to a doctor, because doctors were as familiar as chemists with the nature of drugs. If the strychnine had been used legitimately no harm would have been done. The medicinal dose of strychnine was practically the same as that of morphia. There was no doubt an offence had been committed under the Pharmacy Act, but he (Mr. Taylor) had learnt his lesson. The Magistrates imposed a fine of 3*l.*, including costs.

Deeds of Arrangement.

Merton, William James, deceased (by Administratrix), late 310 Gray's Inn Road, W.C.—Trustee: P. S. Booth, 32 Kimberley House, Holborn Viaduct, E.C. Accountant. Dated August 30; filed September 6. Liabilities unsecured, 166*l.*; estimated net assets, 80*l.* The creditors include: The British Drug Houses, Ltd. (5*l.*); Ford, Shanland & Co. (3*l.*); English Brush Manufacturers (12*l.*); C. R. Harker, Stagg & Morgan (18*l.*); Sangers (23*l.*); Rous (50*l.*); all of London; E. Jackson & Co., Crediton (3*l.*).

Moyle, Simon Chellev, 7 The Arcade, Bournemouth West, Chemist and Druggist.—Notice filed by Trustee, September 7, that the deed dated August 3 and filed, August 10 is void.

New Companies and Company News.

P.C. means Private Company and R.O. Registered Office.

ANGLO-RUSSIAN ASSOCIATION, LTD. (P.C.).—Capital 1,000/. Objects: To carry on the business of merchants, manufacturers of and dealers in hospital, medical, and surgical supplies, etc. R.O., 1 and 2 George Street, Mansion House, E.C.

ERNEST GRAY & CO., LTD. (P.C.).—Capital 1,000/. Objects: To carry on the business of importers and manufacturers of and dealers in wax, gums, artificial teeth, dental rubbers, surgical wires, pharmaceuticals, anaesthetics, dental chairs, chemists, druggists, dealers in proprietary articles, etc. B. de Q. Quincey and C. E. Evans are the subscribers. R.O., Cul de Sax Road, East Molesey.

MADAME GIRARD ET CIE., LTD. (P.C.).—Capital 100/. Objects: To carry on the business of pharmaceutical, manufacturing, and general chemists and druggists, manufacturers of and dealers in all kinds of toilet-requisites, medicines, medicinal preparations, and disinfectants of all kinds, soapmakers, etc. The subscribers are Jesse Boot (managing director) and T. S. Ratcliffe (director). Secretary: A. L. Milne. R.O., Trent Street, Nottingham.

SINGLETON & COLE, LTD.—The directors have declared an interim dividend at the rate of 5 per cent. per annum, free of tax.

COMPANIES WHICH MAY BE WOUND-UP.—Three months from September 12 the names of the undermentioned companies will, unless cause is shown to the contrary, be struck off the Register, and the companies will be dissolved: Curexa, Ltd.; Diatomite and Kieselsoluh Finance, Ltd.; Dr. Charles A. Tyrrell, Ltd.; French's Drug-stores, Ltd.; Private Nursing Association, Ltd.; Research Laboratory, Ltd.; Strand Chemical Co., Ltd.; and West Bromwich Oil and Chemical Co., Ltd.

Trade Notes.

WINTER ADVERTISING FOR CHEMISTS is what Thomas Waide & Sons, Kirkstall Road, Leeds, want to do for you, and they will send samples to any who apply to them.

A **SPECIAL OFFER** is made this week by Wilfred Turner & Co., Ltd., 30 Craven Street, Strand, London, W.C., of douche-fittings, bandage-scissors, surgeon's gloves, syringes (various), and hypo. needles. Styles and prices are quoted in the advertisement.

BAY RHUM, we were told in a London paper this week, is how the preparation is spelt. It was an interesting article, and timely so far as Newbery, Charterhouse Square, London, E.C., are concerned, as may be judged by reference to their "Le Blanc" advertisement in this issue.

ASPIRIN (acetyl-salicylic acid) is offered by Pierson, Morrell & Co., New Barnet, in a new packing—1-oz. and 4-oz. boxes at 2s. 3d. and 8s. Prices for other quantities may be obtained from them on application, and the boxes referred to from any wholesale house as well as from themselves.

MITCHELL'S CORKS.—Many in pharmacy must have admired the manner in which N. W. Mitchell & Sons, Ltd., Limehouse, London, E., not only advertise corks but make them just what chemists want. They give remarkable quotations for them this week, and offer to deliver 10s. worth free to any part of the British Isles.

COLLOIDAL SULPHUR is one of the latest forms of medicine introduced by Oppenheimer, Son & Co., Ltd., 179 Queen Victoria Street, London, E.C. It is manufactured in the Crookes Laboratories, and the firm have just prepared a small booklet about its properties which chemists would find useful to give to doctors or other inquirers.

THE CLOCK WINDOW-DISPLAY which Thomas Christy & Co., Old Swan Lane, London, E.C., have been lending to retail chemists for displays of Zepto pencils has been effective, and is much appreciated all over the country. The exhibit is timely, for it synchronises with special advertising in the public Press, it fixes the attention of passers-by, promotes sales, and helps vendors to make 66.6 per cent. on the goods. Messrs. Christy have a few of the displays left, and will be glad to send them to those who have not tried them. They should be written for at once or soon.

Births.

GRINSTEAD.—At Ashted, Surrey, on September 11, the wife of G. Loxton Grinstead, pharmacist, of a son.

PARKES.—At 95 Main Street, Bangor, co. Down, on September 2, the wife of M. J. Parkes, L.P.S.I., of a son.

RIDDELL.—At Welwyn, Bangalore, India, on August 14, the wife of George Riddell, pharmacist (*née* Flora McDonald), of a son.

Marriages.

BEGGS—MASON.—At Greystons Parish Church, on September 5, Herbert Tennyson Beggs, Ph.C., youngest son of Mr. G. D. Beggs, J.P., Ph.C., Dalkey, to Elizabeth Aileen Mason, Kilmaconogue House, co. Wicklow.

CONN—DUNLOP.—At St. Mary's Church, Glasgow, on September 9, Archibald Taylor Conn, chemist and druggist, Dalry, to Sarah, youngest daughter of the late T. R. Dunlop, inspector of works, Ayr, and of Mrs. Dunlop, 3 Newlands Drive, Partick.

EDWARDS—JONES.—At the English Presbyterian Church, Holyhead, on August 23, Cecil, younger son of Mr. Edwards, Llys Arfor, King's Road, Holyhead, to Jennie, only daughter of the late T. J. Jones, chemist and druggist, of Holyhead.

MACÉWAN—JACKSON.—At Highgate Presbyterian Church, on September 9, Gerald Thomson MacEwan, youngest son of Mr. Peter MacEwan, Ph.C., to Winifred Jackson, daughter of Mr. Robert Jackson, Clapham.

MAW—KELLY.—At the Parish Church, West Tarring, on September 7, Pereival Trentham Maw, sixth son of the late Charles Maw, of Nutfield, Surrey, to Florence Maud Kelly, younger daughter of the late Dr. Charles Kelly and Mrs. Kelly, Kilrush, Worthing.

NUNNS—PARKER.—At St. Silas' Church, Leeds, on September 8, Harry Nunn, chemist and druggist, to Mary, only daughter of Mr. W. A. Parker, Hunslet Road, Leeds.

SELLORS—WELTON.—At Holy Trinity Church, Coventry, on August 29, Frederick William Sellors, chemist and druggist, eldest son of the late F. B. Sellors, chemist and druggist, Tewkesbury, and of Mrs. Sellors, Matlock Bath, to Clara Catherine, daughter of Mr. Henry Welton, chemist and druggist, and of Mrs. Welton, Coventry.

Golden Wedding.

FIGGIS—SMITH.—At the Old Gravelpits Chapel, Hackney, on September 13, 1865, Mr. Samuel Figgis, of London, to Anna Maria, eldest daughter of the late Benjamin Smith, jun. (Present address, Montague Grove, Hampstead.)

Deaths.

FRANCIS.—At his residence at Myanaung, Burma, on July 25, Mr. John Lazarus Francis, proprietor of the Francis Medical Hall, aged fifty-three. Mr. Francis was the eldest son of the late David Francis, and on his death in 1883 he succeeded him as an agent to the Irrawaddy Flotilla Co., Ltd., and the Bombay Burma Trading Corporation, Ltd., at Myanaung. Subsequently he opened a Medical Hall, which is now one of the leading pharmacies in Burma. Mr. Francis was for over fifteen years the Vice-President and Commissioner of the Myanaung municipality, in addition to being Chairman of the Honorary Magistrates of the sub-division. He leaves three sons, and his estates go into the management of his eldest son, John Anthony Francis, who received his early training under his father.

ISMAY.—At Sydenham Terrace, Newcastle-on-Tyne, on September 10, Mr. Reginald Ismay, of John Ismay & Sons, manufacturing chemists, aged forty.

RICHARDSON.—At 3 Market Place, Rugby, on September 1, Mr. Joseph Richardson, chemist and druggist, aged thirty-six. Mr. Richardson succumbed to pneumonia after an illness of four days.

WATKINS.—At Brisbane, Queensland, on July 12, Mr. George Watkins, Ph.C., one of the veterans of Australian pharmacy, as he was also one of the ablest and most charming men.

Died on Service.

BRUNNER.—Major Francis Wilfred Brunner, Royal Engineers, reported missing in Gallipoli on August 9, 1915, and known to have been dangerously wounded, is now officially

presumed killed in action on that date. Major Brunner was the second son of Mr. Henry Brunner, of Huyton (who died in June last), and was educated at Berkhamsted and Woolwich. He obtained his commission in the Royal Engineers in July 1890, and after the usual course at Chatham he was posted to a field company. He went to India in 1895 to join the Bengal Sappers and Miners, and saw service with them in China in 1900. He returned to England in 1902, and for three and a half years commanded a depot company, then passed into the Staff College in 1906. Subsequently he went to the War Office and became Chief Instructor in Military Engineering at the Royal Military Academy at Woolwich. This appointment he held until September 1914, when he took command of one of the new field companies, and went to Gallipoli on July 1, 1915.

EWEN.—Killed in action on September 3. Lieutenant P. K. S. Ewen, of the King's Royal Rifles, only son of the late Philip Ewen (James Ewen & Sons, Hatfield Street, Blackfriars, S.E.) and of Mrs. Ewen. Lieutenant Ewen joined the London Rifle Brigade soon after the war commenced, and worked well for it, ultimately receiving a commission. He was killed while leading his men against the enemy. He was "a gallant officer and comrade," said his Colonel in writing to his mother, to whom the loss comes with peculiar gravity, for it was after her son had joined the Army that her husband died.

HARDIE.—Private W. Hardie, who prior to enlisting in the Royal Scots was employed with T. & H. Smith, Ltd., Edinburgh, has been killed in action.

MORISON.—Killed in action recently. Alexander Donald Morison, of the Royal Welsh Fusiliers. Mr. Morison passed the Minor examination in April 1908, and was for several years assistant at Inman's, Leith Street, Edinburgh. Subsequently he came to England and was manager of the Public Hall Pharmacy, Birchington, Kent, which in April 1915 he left and enlisted (C. & D., 1915, I., 632). He is survived by Mrs. Morison, who has been engaged in Red Cross work.



MR. A. D. MORISON.

Another brother, Private Leonard Needham, of the Grenadier Guards, also a chemist and druggist, was killed a year ago. Both sons were associated with the business of their father.

SAUNDERS.—Killed in action on September 6, Lieutenant and Adjutant William Gilbert Saunders, of the King's Liverpool Regiment, aged twenty-seven.



LIEUTENANT W. G. SAUNDERS.

Lieutenant Saunders was a pharmaceutical chemist, and the only son of Mr. W. H. Saunders (of Ayrton, Saunders & Co., Ltd.) and Mrs. Saunders, 59 Peel Street, Dingle, Liverpool. He was born on September 25, 1889, and was educated at Marlborough College, Liverpool, supplementing this with courses at Bonn and Neuchâtel. He served his apprenticeship with Dr. Symes, Liverpool, and Mr. Herbert Taylor, pharmacist, Woolton; then he entered his father's warehouse as head of the packed-goods department. He studied Minor subjects with Mr. H. Humphreys Jones, Liverpool, and passed the examination in October 1910; then came to the Square school and passed the Major examination in April 1911. He had shown himself to be an exceptionally able student, and it was no surprise to his friends that he supplemented the highest pharmaceutical qualification with the Associateship of the Institute of Chemistry, the examinations for which he passed in 1913, having studied for these in the Liverpool University, where he matriculated after passing the Major examination. He was also elected a Fellow of the Chemical Society in the same

year. He was settling down to business when the war broke out, and had given more than the promise of a successful business career, so that young though he was he became one of the directors of his father's company. He was a member of the Lyceum and Sandon Club, the Philomathic Society, and the Liverpool Chemists' Association. He was a man of magnificent physique, being 6 ft. 3 in. high, and he had a fine welcome when he joined the King's Liverpool Regiment as second lieutenant, shortly after the war broke out. He advanced, and the adjutancy conferred on him after the double star showed his capacity and popularity. Use of the pen was one of his delights, and his war-stories, published by "The Bystander," were well written. His death is deeply deplored by all who knew him or had worked with him.

New Books.

The Third Report of the Indigenous Drugs Committee. 10 x 6½. Pp. iv + 377. (Calcutta: Superintendent Government Printing, India, 1916.) [The following seven drugs are dealt with: (1) *Rheum emodi*; (2) *Ixora coccinea*; (3) *Melia azadirachta*; (4) *holarrhena antidysenterica*; (5) *Berberis lycium*; (6) *symplocos racemosa*; (7) *corchorus capularis*. Assistant-Surgeon Rai Hari Nath Ghosh Bahadur, M.D., reports on *Rheum emodi* and *Ixora coccinea*; the consensus of opinion on the former seems to point to the drug being a good laxative, but it causes a good deal of griping. Reports on the value of *Ixora coccinea* tend to the conclusion that it is a drug of some value in dysentery, its chief pharmacological actions being: (1) To stimulate gastric secretion; (2) to act as a cholagogue; (3) to control dysenteric diarrhoea, with relief of the associated colicky pain. The opinions expressed regarding *Melia azadirachta* are somewhat contradictory, but a fair conclusion seems to be that, although the drug possesses anti-malarial properties, it is far inferior to quinine or its derivatives. *Berberis lycium* has proved to be of very little value as an anti-malaric.]

Marchant, James. *Raphaël Meldola, Hon. D.Sc. Oxon., Hon. LL.D. St. And., F.R.S., Professor of Chemistry in the City and Guilds of London Technical College; Hon. Mem. Soc. Chim. de France, Soc. Espan. Fisicoy Quimico, and Pharm. Soc. of Great Britain; Officier de l'Instr. Publ., France. Reminiscences of his Worth and Work by Those who Knew Him, together with a Chronological List of his Publications.* 7½ x 5. Pp. xvi + 226. 5s. (Williams & Norgate.) [Lord Moulton contributes the preface, which is an appreciation of Meldola's worth and a recognition of what England lost by not taking Meldola's advice thirty years before his death. The volume is divided into the following parts: Biographical Memoir (by Sir William A. Tilden, F.R.S.); Early Years; Professor of Chemistry (the contributions including parts by Dr. M. O. Forster and Professor W. J. Pope, who were Meldola's pupils at the Finsbury Technical College, other parts being by his colleagues there); Chemical Investigator (by Professor A. G. Green and Sir T. Edward Thorpe); Naturalist; Astronomer (by Sir Alexander Pedler, F.R.S., and Sir Norman Lockyer, K.C.B., F.R.S.); and Personality, with appendices including bibliography of Meldola's works, edited by Professor E. B. Poulton, F.R.S. The book is one of the most delightful biographies of scientific men that have been published during recent years. Any profits arising from it will be at the charitable disposal of Mrs. Meldola.]

Information Department.

INFORMATION WANTED.

Postal or telephone information with respect to makers or first-hand suppliers of the undermentioned articles will be appreciated

71/11. "Santal Grande."	62/60. "Radiocloth" vesicating wool.
69/69 "Agroline" tablets.	64/68. Japanese feeding-bottle teats: supplies.
69/68 "Acrodine" tablets.	55/42. Freer's "Free Air" respirator.
72/19 "Dainty" brillantine	76/4. Dr. Wilson's "Flower of Honey" hair-wash.
75/34. "Lavender-water No. 52."	
67/26. "Sulak" brand sugar of milk.	

INFORMATION SUPPLIED.

"Aleresta" tablets, 62/59.	"Navite," 59/24
Balmain's paint, 66/2.	"Odol" substitute, 58/67
Exalgin, chemical equivalent, 74/7	Vanillin: British manufacturers (French inquiry), 70/36
"Ferozone," 69/65	Willow boxes (substitute), 63/74
Luminous paint, 72/30	

Observations and Reflections.

By Xrayser II.

The Cradle of European Civilisation,

said Sir Arthur Evans, in his address to the British Association at New-castle, was Crete, where, it would seem, the records of old time, from an early period of the Neolithic age, can be studied more continuously than almost anywhere else. The civilisation of the Neolithic age itself is now known to have been developed out of that of the Paleolithic, the earliest records of which, in the cave figures and drawings of Northern Spain and Southern France, take us back, at a moderate estimate, some ten thousand years further than the most ancient monuments of Egypt or Chaldaea, and display, at their best, "not only a consummate mastery of natural design, but an extraordinary resource." The chief colouring-matters in these drawings are red and yellow ochre, charcoal being used for the outlines, and specimens of the mortars and palettes for their preparation have been unearthed. Crete received her awakening from Egypt before the beginning of the Dynastic period, and four thousand years before our era she rivalled and in some respects surpassed her instructress. The description Sir Arthur gave of the life revealed by his researches at Knossos is startling in the modernness of its features. Not even at Pompeii, he said, have more living pictures of ancient life been called up, but they differ remarkably from those of Pompeii in this—one single example of indecency has come to light.

This Presidential Address,

though it is, as you say, remote from the purposes of the *C. & D.*, is full of interest and not without points of particular interest to the pharmacist. But it is, both in subject and character, in curious contrast with Professor Henderson's address to the Chemical Section, and not less so with the paper by Mr. Carr which you summarise. These aim rather at the application than the advancement of science, and, important as they are at the present juncture, they trench here and there on matters with which science, as such, has nothing to do. "Scientific industrial research" is well within the province of a scientific body, but it is to be hoped that it will not lessen the British Association's zeal for pure science, or lead it to regard the promotion of a trade war as one of its functions. That would be a sad lapse from the high ideal of science as an educative force equal in value to literature and art. I do not wish to suggest that there is any great danger of this, but it is just conceivable that the same practicality of mind which has led us to neglect applications of science that did not promise an immediate profit may lead to an equally disastrous indifference to science for its own sake.

Pharmaceutical Education and Examination

may, in the near future, once more go into the melting-pot, as you suggested in a recent article on the future of education in this country. Should the Committee on the teaching of science take pharmacy under consideration there are at least three points of view from which it may be studied. They may say that pharmacy is a most important branch of medicine, that pharmacists ought to be highly qualified men, and that it is high time that pharmaceutical education should, like medicine, be in the hands of the Universities. Or the pendulum may swing to the opposite extreme, and they may consider that nine-tenths of the business carried on in the pharmacy is the sale of sundries and nicknacks which any woman of average intelligence can handle a great deal more effectively than a University graduate, while the remaining tenth, the dispensing of prescriptions, may quite well be done by the Army compounders and such-like persons, who have done it for years in the public services. The third line of thought may lead them to the view that the whole business may conveniently be left in the hands of the score of estimable gentleman who meet once a month at

Bloomsbury Square to ratify the decisions of the permanent officials and the little inner circle that pulls the wires at the Square. In this last event we should no doubt find

The Haphazard System of the Past

still more irrevocably bound on our shoulders like another Old Man of the Sea. Unfortunately, no one has, in this generation at least, had a free hand in making the attempt to solve this problem, the vested interest of the Pharmaceutical Society in its property at Bloomsbury Square always obscuring the vision and perverting the aims of the would-be reformer. So far as I can recall, only one man has ever approached the question with an open mind, and I venture to think that a solution of the problem might well be attempted along the direction pointed out by him. I refer to the late Thomas Greenish, who advocated in his presidential address to the British Pharmaceutical Conference the establishment of educational centres in about a score of districts in England, Scotland, and Wales, utilising as far as possible existing University or College teaching. Mr. Greenish, however, lacked faith in his own scheme, as after allowing for 650*l.*, to be provided by the Pharmaceutical Society, for machinery for working the plan, he left the teaching part of it entirely in the air, without any provision for its support. Experience has shown the difficulty of inducing Universities to establish classes in pharmacy without some subsidy or guarantee, and therefore it is hardly surprising that the scheme so carefully devised by Mr. Greenish should have fallen quite flat.

Subsidies are Necessary

if a general scheme of this kind is to be adopted, and these could either take the form of an annual subscription to the funds of the teaching body, or a *per capita* allowance based on the number of students in attendance. I am quite sure that a scheme could be evolved in which every University and University College in the Kingdom could participate, while every existing school of pharmacy, provided certain not very onerous conditions were fulfilled, could be affiliated with a college in its city or district. This would cost money, of course; twenty such schools would soon swallow up a few thousand pounds. But to what better use could the funds of the Society be devoted? Moreover, the encouragement given to local educational centres would appeal to every pharmacist in the country, and the increased membership might be expected to wipe off much of the new burden, for pharmacists would join up when they saw some tangible return for their money. I know what the official mind will say in regard to such a proposal, but I am certain that something like this would more than counterbalance any disadvantage or loss that might be the direct outcome; while the indirect results would be to bring us into line with the general demand for improved science teaching and to solve to a large extent the vexed curriculum question. Is there anyone on the Council with "vision" to carry through a scheme of this kind?

The Last Quarter of the Year

is close upon us, and it is high time we knew the result of the Pharmaceutical Society's inquiry into the terms of service under the new Insurance Dispensing Tariff. What decision, if any, has it come to upon the question of establishment-charges? We have as yet been told nothing, though the time allotted for the inquiry has long since run out. Are we to be "rushed" into new contracts in the last weeks of the year, as we were before? It begins to look like it. There are other questions to which every local Association in the country ought at once to demand an answer—the amount received for the checking of prescriptions and the uses to which the money is being put are among them; but this is of immediate urgency, and I wonder at the quiescence of the trade with respect to it. Do our "leaders" think we prefer to be led by the nose?



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Editorial Articles.

U.S.P., IX.

PHARMACOPEIA-PRODUCTION all the world over is akin in
respect to the fact that what some book-lovers call
format is rarely changed. The ninth decennial revision
of the Pharmacopœia of the United States is in outward
appearance the same as the eighth, but the figure IX. is
on the outside of the new one, and a corresponding figure
did not occur on the last. Internally there are some
changes, the book being divided into Part I. and Part II.,
the first part including lxxx introductory pages and
497 pages of the Pharmacopœia—*i.e.*, monographs. Part II.
comprises atomic weights and kindred data, as well as
general tests and such matters as thermometric equi-
valents and other factors and methods connected with the
testing of medicinal substances. About the time that the
eighth revision of the Pharmacopœia was published we
suggested that there should be closer union between the
British and the United States Pharmacopœias. This has
been carried out in a measure. When Professor Joseph P.
Remington, Chairman of the U.S.P. Committee, was in
London he visited the Editor of the British Pharmacopœia
(Sir Nestor Tirard, M.D.), and it was agreed, in the
interests of international uniformity, to use abbreviations
in the U.S.P. The Commissioners agreed, but what the
U.S.P. employs is not a list such as Appendix 17 of the
British Pharmacopœia, but the abbreviations are found
chiefly in sub-titles to the monographs, and in Part II.
referring to the reagents, tests, solutions, and volumetric
solutions. For example, the Acetum Scillæ monograph is
headed as follows:

ACETUM SCILLÆ.

VINEGAR OF SQUILL.

Acet. Scill.

We prefer this American method, and regard it as an
improvement upon the English manner. The other notable

English thing that the U.S.P. does is to adopt mil for c.c., because "the United States Bureau of Standards declared that the term cubic centimeter was a misnomer." No other Pharmacopœia except the B.P. does this thing, and graduated measures are not made at 4° C., but at the normal temperature 15.5° C., when the volume of a gram of water is a cubic centimeter, and not a mil. The most notable difference between the ninth revision and the eighth is due to the officialising of the U.S.P. and the National Formulary under the Pure Foods Act. The result is that nearly a hundred formulas for galenical preparations are dismissed from the U.S.P., and the impression is conveyed that in future the National Formulary will provide matter of this kind. We observe that the articles added to the U.S.P. contain few galenicals, the list being as follows :

Acidum phenyleinchoninicum	Nitrogenii monoxidum
Ethylmorphinæ	Oleoresina petroselinii
Agar	Oleum pini pumiliois
Aqua destillata sterilisata	" sesami
Aspidosperma	Oxygenium
Betaucaine hydrochloridum	Paraformaldehydum
Bismuthi betanophtholas	Petroselinum
Caffeine sodio-benzoas	Phenolphthaleinum
Calcii glycerophosphas	Potassa sulphurata
Calcii lactas	Quinina dihydrochloridum
Cotarnina hydrochloridum	et ureæ hydrochlori-
Cresoti carbonas	dum
Diacetylmorphina	Quinina tannas
Diacetylmorphinæ hydrochlori-	Scammonia radix
dum	Serum antidiphthericum purifi-
Diastasum	catum
Emetine hydrochloridum	Serum antidiphthericum siccum
Emplastrum cantharidis	" antitetanicum
Emplastrum elasticum	" " purifica-
Emplastrum resinae	tum
Extractum aconiti	Serum antitetanicum siccum
" fellis bovis	Sodii benzosulphinidum
" gelsemii	" caedylas
" hydrastis	" cyanidum
" viburni prunifolii	" glycerophosphas
Fluidextractum aspidospermatis	" indigotindisulphonas
sabal	" perboras
Glucosum	" sulphis exsiccatus
Hydrargyri salicylas	Terra silicea purificata
Hydrastinae hydrochloridum	Theobrominae sodio-salicylas
Hypophysis sicca	Theophyllina
Liquor hypophysis	Toxitebella hydrargyri chloridi
" sodii chloridi physio-	corrosivi
logicus	Trinitrophenol
Liquor sodii glycerophosphatis	Uranii nitras
Magma bismuthi	Virus vaccenicum
" magnesiae	

This matter of official standards appears not to worry the U.S.P. men greatly, but it strikes us as being one of those things that are better avoided, especially in such a case as the United States, where a Government Bureau is the ultimate controller of matters like this. We note that there are some novelties in the galenical processes as well as developments in old-established methods. For example, in the preparation of ext. colch. corn. and ext. ergot. the drugs are freed from fatty matter by treatment with purified petroleum benzin. The introduction of biological preparations is a notable feature of the Pharmacopœia, and we cannot illustrate better how it is done than by quoting a monograph :

LIQUOR HYPHYSIS.

Solution of Hypophysis.

Liq. Hypophysis.—SOLUTION OF THE PITUITARY BODY.

A solution containing the water-soluble principle or principles from the fresh posterior lobe of the pituitary body of cattle.

Extract the finely minced material with slightly acidulated water, boil the solution for ten minutes, and filter it. Sterilise this filtrate, and preserve it in a sterile condition in glass containers.

A transparent liquid, colourless or nearly so, having a faint, characteristic odour.

One mil of solution of hypophysis, diluted 20,000 times, has the same activity on the isolated uterus of the virgin guinea-pig as a 1 to 20,000,000 solution of beta-aminazoly-ethylamine hydrochloride when tested, as directed by the United States Hygienic Laboratory.

AVERAGE DOSE—Metric, 1 mil; Apothecaries, 15 minims.

The Convention which met in May 1900 recommended that serums and other biological products of approved

usefulness, if standardised by the Government or one of the Departments, might be admitted into the Pharmacopœia. The Committee of Revision provide in Part II. a chapter on biological assays, and state that the biological assay for pituitary solution and cannabis and its preparations "is a requirement." The processes given in Part II. cover cannabis, aconite, digitalis, strophanthus, squill, and suprarenal gland, but the testing of these is not referred to a Government Department. One of the features of the Pharmacopœia is the international protocol, which is a much fuller statement than is given in the British Pharmacopœia, p. xxxviii, the U.S.P. matter occupying six pages and dealing with forty-one articles, compared with half-a-dozen in the B.P. In several respects the manner of preparing the revision embodied improvements, but although plenty of pharmacy is left in it, one cannot be sure that in future the U.S.P. will be a book of pharmacy; it promises to be rather a work embodying botanical, chemical, physical, and physiological data and standards pertaining to American official medicines.

Overseas Trade in August.

THE Board of Trade Returns for August make a remarkably good showing; the exports from Great Britain and Ireland are the best recorded since the commencement of the war, being 47,720,323*l.*, or 15,281,463*l.* higher than in August 1915. In making this comparison, however, allowance must be made for the fact that there was no Bank Holiday this year, but the difference is not sufficient to account for the expansion shown, which is much more marked in exports than in imports. The latter were 76,116,834*l.*, or 6,715,915*l.* more, equal to 9.67 per cent., whereas the British exports were 47.1 per cent. up. There was also a small increase in exports of foreign and colonial produce of 414,737*l.*, or 5.6 per cent. more. Comparing these figures with August 1914, the expansion is much more striking, but during that month trade was temporarily paralysed. For the eight months ended August 1916 we have the following figures :

	£	£	%
Imports	626,693,513	+53,035,709	+9.2
Exports	335,851,261	+85,068,007	+33.9
Re-exports	69,754,508	+1,698,949	+2.4

Turning to the detailed figures for August, there was a decrease of 1,259,000*l.* in imports of foodstuffs and an increase of 7,635,941*l.* in raw materials, which included 2,232,827*l.* for oilseeds and the like. Manufactured articles were 231,193*l.* more, our imports of chemicals and allied products being valued at 2,468,049*l.*, an increase of 910,446*l.*, but compared with August 1914 the increase is 1,769,621*l.* On the export side, the principal feature was an increase of 12,068,016*l.* in manufactured goods, cotton textiles heading the list with an advance of over 3,000,000*l.* There was a gain of 1,607,000*l.* in shipments of raw materials, coal practically accounting for this; a tight rein is now kept on exports of oilseeds and fats, the figure being 357,065*l.*, and in view of the suspension, announced this week, of export licences of many oils and fats to Holland and Scandinavia, the September figures will show a further shrinkage. There was an increase of 617,321*l.* in shipments of food, drink, and tobacco. The outward movement in chemicals, drugs, dyes, and colours showed 722,966*l.* increase compared with August last year, but compared with August 1914 the increase is 1,428,977*l.* There was a marked advance of 150,350*l.* in the exports of medicines, the total reaching 375,251*l.*, against 224,901*l.* in August last year. Miscellaneous chemicals also improved by 133,476*l.*,

painters' colours by 155,345*l.*, copper sulphate by 348 tons, and tartaric acid by 1,703 cwt. Among the prominent decreases were bleaching-powder by 32,118 cwt., glycerin by 16,262 cwt., and soda compounds by 71,753 cwt., but the value of the latter rose by 66,428*l.*—a good instance of the inflation of values. Our eight months' export trading in this department reached the "record" figures of 18,115,823*l.*, or 3,269,037*l.*, more than the corresponding period of 1915; while the exports of foreign and colonial chemicals and allied goods for the expired portion of the year amounted to 3,457,129*l.*, or 1,561,000*l.*, more than in 1915. As a whole, these figures are very encouraging considering the manner in which export trading is officially restricted.

What do Doctors Want?

WE and many others were under the impression that since the National Insurance Act came into force doctors have had very little to complain about in regard to counter prescribing by chemists. The "Medical Press" is going on the old lines, however, and says:

"It might be possible to give powers to the Pharmaceutical Society to deal with their black sheep in much the same way as the General Medical Council deals with ours. In any case, they ought to be dealt with."

We wonder what our contemporary is thinking about? Chemists as a body have been giving Insurance dispensing a fair trial, and have submitted to constant pressure by doctors to reduce the remuneration for dispensing. Doctors have succeeded, too, thanks to the Departmental Committee of last year and the work of the English Insurance Commissioners. If chemists have much more of this or of remarks like our contemporary's, the temptation to revert to old times and old methods will overcome the present system of working with the doctor and losing by him.

Tightening the Blockade.

THE British Government have decided to place further restrictions upon the export of certain products to Scandinavia and Holland, and an official notice has been issued by the Foreign Office to the effect that no more licences or other facilities will be given by the Government until further notice, or, in the cases of animal oils and fats and vegetable oils and oilseeds (excluding soya-beans) for Denmark until October 1. It is stated that Privy Council licences will similarly not be accepted by the Customs as authority for shipment without special authorisation from the War Trade Department. Holders of unexhausted licences are requested to communicate with the War Trade Department stating the reason for which they desire to receive such special authorisation. The following is a list of the articles affected so far as the drug-trade is concerned:

DENMARK.—October 1, 1916: Animal oils and fats, vegetable oils and oilseeds (excluding soya-beans). Until further notice: Apricot-kernels, borate of lime, borax and boron compounds, egg-yolk and albumen, grass-seeds, sago, starches, sulphur, talc (powdered), tapioca, tea.

NORWAY.—Until further notice: Borax and boron compounds, cocoa, coffee, nickel, pitch, talc (powdered), tar, tar oil.

SWEDEN.—Until further notice: Antimony, apricot-kernels, carnauba wax, casein, cocoa, corkwood, coffee, dried fruit, gums (except shellac), honey, margarine (raw materials used in manufacture of), peach-kernels, plum-kernels, rice, rosin, spices, starches, sisal, tea, turpentine, turpentine oil.

HOLLAND.—Until further notice: Egg-yolk and egg-albumen, fish oil, fruit nuts and kernels, gums, honey, matches, pitch, sulphur, spirits, spices, starches, rubber and balata, talc (powdered), tar, yeast.

No explanation is given for tightening the restrictions, but it is, of course, quite understood that the object aimed at can only be to make the blockade of the Central Powers more effective without unduly interfering with the interests of neutrals. It will be seen that raw materials used in the manufacture of margarine—i.e., West African palm-kernels, etc.—are prohibited from being sent to Sweden, but not to Holland, Norway, or

Denmark; that is because there is a commercial understanding with the three latter countries that none of these shipments will reach the enemy.

Sale of Medicated Wines.

THE Central Control Board (Liquor Traffic) have issued a further order, this time applying to the Midlands area. It contains the conditions as to the sale of medicated wines which have already been prescribed for other areas, and which require medicated wines and medicinal mixtures when sold or supplied on licensed premises to be sold or supplied only in bottles or other vessels which bear a label indicating the amount of proof spirit contained in the liquid. The concession granted as to labelling which is given in the amending order of July 24 last is repeated in this order; and in the case of any medicated wine or mixture or preparation sold or supplied in a bottle or other vessel enclosed in a sealed packet within the area to which the present order relates, it will be sufficient if the sealed packet bears the required label; but, as in the case of other areas, this concession only extends to mixtures sold or supplied at any time up to October 9, 1916. Restrictions on the sale of intoxicating liquor are imposed in the following terms:

No person shall, except with the written authority of the Central Control Board (Liquor Traffic) and in accordance with the terms and conditions subject to which such authority may be granted, either by himself or by any servant or agent, sell or supply in any premises any intoxicating liquor under an Excise licence granted in respect of such premises on or after the twenty-eighth day of August, 1916, unless an Excise licence authorising such sale was in force in respect of such premises on the twenty-seventh day of August, 1916. Provided always that nothing in this article shall be deemed to affect the sale of intoxicating liquor under—(a) an Excise licence granted on the authority of a Justices' licence; or (b) an Excise licence granted to any person holding a canteen under the authority of a Secretary of State or of the Admiralty; or (c) a manufacturer's licence.

The short effect of this portion of the order can, we think, be best expressed in this way: The Licensing Consolidating Act, 1910 (Section III.), allows the sale without a Justices' licence of intoxicating liquors in certain exceptional cases. In some of these cases, however, it is necessary to take out an Excise licence if it is desired to sell, and it is at these or some of these that the order of the Control Board is aimed. For instance, a spirit-dealer or a wine-dealer could obtain an additional spirit in bottle retail off-licence or wine by retail off-licence respectively without obtaining a Justices' certificate, if the licensed premises were used exclusively for the sale of intoxicating liquors. An Excise licence for the sale of intoxicating liquors in a railway carriage might also be obtained without the necessity of obtaining a Justices' licence. This will not any longer be possible in a prescribed area, and it must fairly be said that the restriction is consistent with the avowed policy of the Board; that is, to curtail the consumption of drink.

Personalities.

Authenticated notes are inserted without charge if not in the nature of advertisement, and subject to Editorial approval.

ALDERMAN OWEN A. CLARK, chemist, Bury St. Edmunds, who has been Mayor since the war began, is to remain in the position for the duration of the war. The Town Council so decided at the meeting on Tuesday.

COUNCILLOR WILLIAM BRIGGS, J.P., chemist and druggist, formerly in business in Cheapside, Lancaster, has been recommended by the Special Selection Committee for election as Mayor of that borough for the fourth successive year, his tenure of the office constituting a record since the passing of the 1835 Municipal Reform Act. During his mayoralty Mr. Briggs has celebrated his silver wedding and the coming of age of his son by presenting to the town a richly jewelled gold mayoral chain of office, the occasion being also marked by the municipality's gift to the Mayor and Mayoress of a handsome silver tray.

Insurance Act Dispensing.

A Record of matters concerning Chemists' interests in the National Health Insurance Acts.

A Chemist Removed from the List.

In the *C. & D.*, July 15, we reported an inquiry at Grimsby by a Committee appointed by the Insurance Commissioners into a complaint made by the local Insurance Committee as to the continuance of Mr. Charles Henry Ashton, Ph.C., 342 Wellington Street, Grimsby, on the list of persons supplying drugs, etc., to insured persons. The Committee consisted of Mr. J. Fischer Williams (barrister), in the chair; Mr. F. Pilkington Sargeant, Ph.C. (Leeds), and Mr. Richard Sands, Clerk to the Nottingham Insurance Committee. The nature of the evidence was fully indicated in our report, and in the report to the Commissioners particulars are given of twelve occasions on which Mr. Ashton supplied petroleum emulsion, but on one occasion a mixture, the amount claimed on all occasions being higher than that due—*e.g.*, 5s. 1d. instead of 2s. 6½d. Instances were also given of excessive supply of linseed meal. The Committee were of opinion that the overcharges and alteration of linseed-meal prescriptions had been made, and added:

"Mr. Ashton stated in evidence that the prices allowed by the Drug Tariff to the panel chemist were below the cost prices which the panel chemists had to pay, and that the overcharges referred to in paragraph 4 (a) were deliberately made by him, well knowing that when the sum came to be checked by the Insurance Committee's checker the overcharges would be discovered, and that he would thus force an inquiry, when the whole of the complaints of the chemists could be inquired into. Mr. Ashton further stated that the prescriptions of medical practitioners were given in an unsatisfactory manner, and that he altered the prescription referred to in paragraph 4 (b) with the object of forcing an inquiry so as to enable the complaints of the chemists to be investigated. The Inquiry Committee are unable to accept Mr. Ashton's explanation, and they draw from the facts established the inference that the overcharges referred to in paragraph 4 (a) and the alteration of the prescription referred to in paragraph 4 (b) were made by Mr. Ashton deliberately with the intention of defrauding the Insurance Committee."

The Insurance Commissioners inform us that as the result of the inquiry they "are satisfied that the continuance of Charles Henry Ashton, of 342 Wellington Street, Grimsby, upon the list of persons, firms, and bodies corporate entitled to supply drugs, medicines, and appliances to insured persons would be prejudicial to the efficiency of the service, and they have accordingly directed that his name be removed forthwith from the list."

Reports from Local Centres.

ENGLAND.

Blackburn.—The Insurance Committee met on September 12. The Pharmaceutical Committee wrote formally protesting against the adoption of stoek mixtures. The Clerk submitted a statement as to the payment of chemists' accounts for 1915. The amount available is 4,953l. 6s. 4d., out of which 4,188l. 10s. has already been paid, representing 78.591 per cent. of the accounts. As the total claims exceed the sum available by 376l. 3s. 6d., payment is limited to 92.941 per cent. of the accounts. Enlistments of insured men are the main cause of the reduced sum available. A return was submitted relating to the dispensing in the Lancashire Bureau's No. 4 area for the first quarter of this year, which showed that in Blackburn the average cost of each prescription was 2.94d., against an average for the area of 3.13d.; the dispensing-fee averaging 2.66d., against 2.62d. in the area. Mr. R. Lord Gifford, J.P., and Mr. C. A. Critchley are to serve on the Pharmaceutical Sub-Committee, and Mr. Gifford and Mr. W. Grimshaw on the Joint Services Sub-Committee. Dr. Gregson wrote regarding the difficulty of obtaining homœopathic drugs from certain panel chemists, and is to be informed that in any future case of difficulty particulars are to be forwarded to the Committee for consideration.

Bournemouth.—The Pharmaceutical Committee met on September 7, when the report of the Clerk to the Insurance Committee for 1915 was adopted. This stated, *inter alia*, that the checking of accounts had added 43l. 19s. 3d. and deducted 49l. 0s. 11d., making the net saving to the Drug Fund 5l. 1s. 8d. The amount available for drugs and appliances is sufficient to pay chemists' accounts in full and leave a surplus of 241l. 10s. 4d. divisible among the doctors. Prescriptions dispensed in 1915 numbered 63,413, at a total cost of 1,977l. 17s. 10d. and an average of 7.48d., against 63,390 in 1914, costing 2,246l. 3s. 1d. and averaging 8.5d., and 62,949 in 1913, of the aggregate value 2,014l. 18s. 5d. and average 7.68d.

Essex.—The Pharmaceutical Committee met on September 12, when the Secretary announced that chemists' claims for 1915 amounted to 21,897l. 13s. 3d., to meet which the amount available is 20,677l. 4s. 5d. The sum of 16,197l. 7s. 10d. has already been paid on account, leaving a balance of 4,479l. 16s. 7d. to be distributed, which will make a total payment of 94.4266 per cent. of the claims. In regard to the 1914 accounts the amount available for payment is in excess of the sum notified by the Commissioners in connection with the emergency settlement for that year, and it is suggested that the available sum be distributed among those who accepted the emergency settlement, including those chemists who are now on the South-end panel, in proportion to their 1915 accounts. Though not an ideal settlement, this represents nearly 12½ per cent. over that of 1914, mainly the result of the watchfulness of the Drug Joint Sub-Committee.

Gloucester.—The Insurance Committee met on September 2. The Finance Sub-Committee reported a decrease in the amounts payable to chemists and doctors for the year 1915. Compared with 1914 the amount was about 2,000l. less, due to the fact that so many men had enlisted. The total amount payable for last year is 37,692l., against 39,253l. in the previous year.

London.—The Pharmaceutical Committee met on September 12. Mr. A. R. Melhuish in the chair. It was announced that the final adjustment of the 1915 accounts will be made without delay, and a favourable settlement is anticipated. The report on the Central Checking Bureau's work for January was referred to the London Executive Committee. Payment in advance for September is to be made at the rate of 5d. per script. Each panel chemist is to be supplied monthly with statistics as to prescriptions and dispensing-fees. A protest is to be sent to the Commissioners regarding their decision as to "Rep. mist." and the question is to be considered by the County Executive. With a view to facilitating the payment of accounts, the attention of panel chemists is to be drawn to the more common errors made in rendering statements. The report of the Pharmaceutical Service Sub-Committee was adopted.

Salford.—The Medical Benefit Sub-Committee has received from Manchester and Salford Joint (Prescription) Committee a statement showing the following details: Prescriptions dispensed in April last numbered 22,942, at a total cost of 479l. 15s. 5d. and an average per script of 5.02d., compared with 26,515 prescriptions in April 1915, which cost 491l. 12s. 2d., averaging 4.44d. per script; while the average cost per insured person has risen from 8.87d. in April 1915 to 10.23d. in the corresponding month this year.

An Appeal to Local Associations.

The Hull Pharmacists' Association (Secretary, Mr. R. F. Jones, 167 Anlaby Road, Hull) strongly appeals to members of local Associations to take concerted action on similar lines to what has been followed in Hull, and which has been endorsed by local members of Parliament as being the only way to enable M.P.s to understand the chemists' case—namely, for deputations in every area to wait on their members of Parliament, primarily with the object of having the previous year's accounts (which have been discounted) paid in full; and, secondly, to put before those interviewed in as short and concise a form as possible the working of the Medical Benefit part of the Insurance Act from the chemists' standpoint, thereby demonstrating to them the unfair, and in many cases unjust, methods which chemists have had and still have to face. This is to be done in the hope that members of Parliament may in the future be able to take an intelligent interest in the working of the Medical Benefit section of the Act. In any future legislation chemists' interests would be better looked after, technical points which have hitherto been obscure to the uninitiated would be better understood, and chemists' difficulties appreciated as the result of intelligent discussion by members of the House of Commons. The following are the chief points emphasised by the Hull deputation, which may act as a guide to other Associations:

1. The discounting clause, afterwards admitted by Mr. Montagu, of the Treasury, to be an injustice, and one which never ought to have been put into operation.
2. In most cases against their better judgment chemists as a class felt they must go on the panel, whatever the terms, so as not to drive their customers into competitive shops.
3. From the beginning of the Act in 1913 to the present time there has been a consistent cutting down of Tariff prices, and practically all the economic reforming of the Act has been at the expense of the Drug Fund.
4. That the same rate (*viz.*, 1s. 6d. per head insured persons) considered by Commissioners to be adequate during the last two years with war prices of drugs, although it was admittedly not sufficient in peace times.

5. That chemists' turnovers being comparatively so small, they cannot be ruled by percentages when calculating their profits, and placed on the same basis as big concerns having turnovers of 20,000l. or more per annum.

6. Establishment-charge too small for small turnovers, should have a profit on ingredients of prescriptions as well as dispensing-fee, if only to compensate for wastage in weighing small quantities.

7. Stating losses occurring each year through the operation of the discounting clause, also the delay in making payments.

8. In spite of the fact of supplying drugs at cost, the quantities are calculated and allowed for down to the one-hundredth part of a penny (imagine 100 weighings to obtain one penny).

9. The disadvantage accruing to the patient through forced economy in prescribing.

10. The enormous number of hours of service devoted to the State for our paltry remuneration, and the fact of drugs having to be supplied to B.P. standard and under the Food and Drugs Act.

All the above points, Mr. Jones explains, have been brought out and elaborated in interviewing the local and county M.P.s, and in every case have met with a most sympathetic and patient hearing.

SCOTLAND.

The Drug Tariff.—In the August appendix to the Tariff thirty-three drugs were altered. We append a few of the prices:

Acid, aceto-sal., 5s. 3d. oz., 9d. 3j.; bismuth carb., 1s. 5d. oz., 2½d. 3j.; atrop. sulph., 35s. 8½d. 3j. 9d. per grain; bismuth subnit., 1s. 4½d. oz. 2½d. dr.; codeia phos., 5s. 7½d. dr.; cocaine hyd., 5s. 11½d. dr.; guaiacol carb., 12s. 7½d. oz.; hexamine, 9½d. oz.; phenacetin, 10s. 9d. oz.; phenazon., 8s. 8d. per oz.; pot. brom., 1s. 8d. oz.; sod. brom., 1s. 2d. oz.; ammon. brom., 1s. 4½d. oz.

In the September Tariff thirty-seven prices are altered, twenty-six showing a decrease and eleven an increase. Prices of bromides and salicylates remain relatively high; "economy" is still the "pass-word." The more important prices are:

	oz.	dr.		oz.	dr.
	s. d.	s. d.		s. d.	s. d.
Acetanilid. ...	0 10½	0 1½	Guaiacol carb. ...	11 11	1 8½
Acid, aceto-sal. ...	4 5½	0 8	Hexamina ...	0 8	0 1½
Acid, benzoic. ...	3 3½	0 6	Hydrarg. subchlor. ...	1 0	0 2
Acid, hydrobrom. ...	0 5	0 1½	Lin. bellad. meth. ...	0 10	0 1½
Acid, salicyl. ...	1 2	0 2	Lin. camph. ...	0 1½	—
Ammon. benz. ...	2 10	0 5	Lin. chlorof. ...	0 5½	0 1
Ammon. brom. ...	0 9	0 1½	Lin. meth. salicyl. ...	1 5	0 2½
Atrop. sulph. 35s. 8½d. dr., 9d. gr.			co. ...	0 4	0 7
Bals. Peru. ...	2 8½	0 5	Liq. atrop. sulph. ...	9 4	1 4
Bism. carb. ...	1 5	0 2½	Malourea ...	8 8	1 3
Bism. oxid. ...	2 5½	0 4½	Methylsulphonal ...	10 9	1 6½
Bism. salicyl. ...	2 5½	0 4½	Ol. morrhue 5s. 11½d. Imp. pint	8 5	1 2½
Bism. subgal. ...	2 5½	0 4½	Opium pulv. ...	11 11	1 8½
Bism. subnit. ...	1 4½	0 2½	Phenacetin. ...	0 9½	0 1½
Caffeina ...	5 7½	0 10	Phenazon. ...	12 7½	1 10
Caffeine cit. ...	3 7½	0 6½	Phenolphthalein ...	4 0	0 7
Cap. creosoti mij. 3s. per doz.			Salol. ...	3 3½	0 6
Chloral. hydrat. 1 7½	0 1½		Sod. benz. ...	0 8½	0 1½
Chloroform. ...	0 5½	0 1	Sod. brom. ...	1 2	0 2
Cocain hyd. 5s. 11½d. dr., 1½d. gr.			Sod. salicyl. ...	3 6	0 6
Codeia, 6s. 4d. oz., 2d. gr.			Subphonal ...	1s. 6d. doz.	
Codeia phos. 5s. 7½d. oz., 1½d. gr.			Tab. phenacetin. ...	1s. 4½d. doz.	
Creosoti carb. ...	5 4½	0 9	co. B.P.C. ...		
Emulsio ol. morrhue B.P.C. 0 2			Tab. phenacetin. ...		
Do. c. lypo. ...	0 3		co. B.P.C. ...		
Ext. bellad. sic. 3 9	0 6½		Theobrom. sod. salicyl. ...	7 4½	1 1
Ext. bellad. vir. 1 3	0 2½		Thymol ...	4 8	0 8
Ext. filicis liq. 3 6	0 6		Ung. belladon. ...	1 8	0 3
Ext. multi o. morrh. B.P.C. 1s. 5½d. lb.			Ung. hydrarg. ...	0 4	—
Ferri ammon. cit. 0 6	0 1		Vin. ipecac. ...	0 2½	0 0½
Ferri quin. cit. 2 3	0 4				

Aberdeen.—The Insurance Committee has decided to surcharge two medical men for excessive prescribing. The Panel Committee had reported that, after hearing the practitioners concerned, it considered the prescriptions extravagant both in character and in quantity. The Finance and Medical Benefit Sub-Committee accordingly recommended that the two doctors be surcharged 244l. and 46l. respectively, being the cost of their scripts over the statutory 2s. per insured person on their lists. It is believed that the two practitioners will appeal. An Aberdonian well versed in Insurance Act details says the doctors are "fined for doing their duty to their patients. The 2s. per head scale is being found out by the people, and sooner or later the discontent will make itself known. . . . There can be no doubt that as a substitute for the old Friendly Society the Insurance Act is proving wholly unsatisfactory."

Dundee.—The Insurance Committee, having received the final credit for 1914, intimate that chemists' accounts for that year will be paid in full.

Glasgow.—The report of the Pharmaceutical Committee for 1915 has been issued. After dealing with the work of the various Sub-Committees and the defeat of the Government Tariff scheme, it mentions that the cost of the prescriptions of 293 doctors was within the statutory 2s. per insured person, while sixty-five practitioners exceeded that amount, some of these appearing to be guilty of "extravagant" prescribing. Payments to chemists amounted to 24,099l. 19s. 8d., compared with 30,458l. 17s. 3d. in 1914. The number of forms dispensed in the year was 617,923, and the average value per form was 9.327d. The Committee considers the Drug Fund to be capable of providing an adequate service to the insured sick. The report makes graceful mention of the work of Messrs. Thomas Guthrie, J. Rutherford Hill, and G. Shiach Kitchen.

Roxburghshire.—The Insurance Committee has deducted 10 per cent. for chemists' accounts for May. The Clerk states that this is necessitated by the condition of the Drug Fund for the first half-year. The Committee "regret the position which has arisen, but, strong representations having been made to the Panel Committee on the subject, it is anticipated that care will in future be exercised in prescribing," and that the accounts will ultimately be paid in full.

WALES.

Carmarthen.—The Insurance Committee met on September 9, when Mr. J. Harrison Evans was elected Chairman. Mr. Walter Lloyd (Carmarthen), moving that a recommendation with regard to stock mixtures be referred back to the Drugs Committee, said if the recommendation were adopted the chemists' profit on a bottle of medicine would be reduced from 2d. to 1d. He complained of the injustice caused to chemists, and said that had it not been for the war he did not think any chemist would be on the panel to-day. Dr. Hopkins (Llangadock) believed the system of stock mixtures was unfair to the chemists and the doctors as well as the patients. The recommendation was referred back.

Association Affairs.

Aberdeen.—The quarterly meeting of the Aberdeen Pharmaceutical Association was held in Robert Gordon's Technical College on September 5, Mr. J. R. Reith (President) in the chair. The question of a minimum retail price-list was discussed, but it was decided to defer the matter to a subsequent meeting for fuller consideration. A statement as to the position of local insurance matters showed a possibility of further payments of arrears of chemists' accounts and full payment for 1915.

Fife.—The annual meeting of the Fife Shire Pharmaceutical Association was held at Thornton on Wednesday, September 6, when routine business was transacted. Mr. James Bisset (Burntisland), the President, is succeeded by Mr. J. Bryce McLaren (Kirkcaldy), with Mr. R. S. Ramsay (Lochelly) as Vice-President. Mr. Charles Stewart (Kirkcaldy) was reappointed Secretary and Treasurer. Mr. J. Rutherford Hill (Edinburgh) attended the meeting and gave the members information in regard to pharmaceutical matters, and answered problems that were vexing some of the members.

Irish Chemists' Assistants' Association.—After an interval of close on four years, Dublin and district chemists' assistants met at the Clarence Hotel, Wellington Quay, Dublin, on September 8, to combine forces in regard to an Association. About a hundred young men were present. The Chairman explained the objects of the meeting. In the course of his remarks he said nothing had been done to enable ill-paid and overworked chemists' assistants to go with the times. They did not want to penalise any particular house or firm, but they did want some revision in their conditions of service, and the surest way of attaining that end was to get together and say what they required. This was the root of the desire to form an Association of assistants. There were other considerations which made for the formation of an Assistants' Association, but for the present the members would present a solid front on two distinct platforms—namely, increased salaries and shorter hours of work—and if there was unanimity on the point they could form the Association forthwith. Several others followed the Chairman on similar lines, and it was resolved without a dissentient that the Irish Chemists' Assistants' Association be formed, membership to be open to all assistants and apprentices in pharmaceutical and kindred establishments throughout Ireland. A Provisional Committee was formed, consisting of a President, Vice-President, Secretary, Treasurer, and twelve others covering the city and district areas. The Secretary

said a notice would be sent to the members as to the date, place, and hour of holding the first general meeting.—A meeting of the Provisional Committee was held on September 12, when rules were drafted and a number of matters of procedure decided upon. The main lines for the successful management of affairs were indicated, and the objects for which the Association has been formed were made clear. It was resolved to hold the first general meeting of the members at Moran's Hotel, Talbot Street, Dublin, on Wednesday, September 20, at 8 p.m. It was stated that the response to the "call to arms" is most encouraging and augurs well for the future of the Association.

Scientific Progress.

Temperatures under this heading are on the Centigrade scale.

Coniferous Oils.—Schorger ("Jour. Ind. Eng. Chem.," 1916, 8, 22) publishes a further communication on the chemistry of *Coniferae* essential oils. He gives the following details for the oils from (1) the leaves and twigs, (2) the bark of the so-called incense cedar, *Libocedrus decurrens*, a tree principally occurring in California. The characters of the oils, together with their compositions, are as follows:

	Leaf Oil	Bark Oil
Yield	0.17-0.30 %	0.14 %
Sp. gr.	0.865-0.877	0.862
Ref. index	1.4751-1.4778	1.4716
Rotation	-73°+39°	+1.1°
Acid-value	0.5-1.3	0.6
Ester-value	18.5-28	3.2
" " (after acetylation)	29-46	9.5
Pinene	12-16 %	75-85 %
Sylvestrene and limonene	54-58 %	—
Dipentene	—	5-6 %
Bornyl acetate	8 %	1 %
Borneol	4 %	2 %
Libocedrene	6-7 %	—

Libocedrene is claimed by the author to be a new sesquiterpene having the following characters: Sp. gr., 0.929; boiling-point, 260°-280°; refractive index, 1.4994; optical rotation, +6.4°. It yields a hydrochloride melting at 132°-133°.

Essential Oil of Brisbane Sassafras.—G. W. Harreaves, in a communication to the Chemical Society ("Journal," 1916, p. 75), gives the results of his investigations on the essential oil of *Cinnamomum Oliveri*, commonly known as the Brisbane sassafras, a handsome tree growing in the scrub in the north-eastern part of Queensland. From 71 kilos. of the bark he obtained 1,760 c.c. of oil, having a specific gravity 1.030 at 23°, and a refractive index 1.5165 at the same temperature. The oil was separated by fractional distillation into four main fractions, which were again fractionated, with the following results: The fraction boiling at 77°-78° at 30 mm. amounted to about 12 to 15 per cent. of the oil, and was identified as pinene by analysis and by the preparation of its nitroschloride melting at 108°. From the fraction boiling between 90° and 120° at the same pressure a white solid separated, which was dried and found to boil at 204°. Its analysis agreed with the formula for camphor, and its oxime was found to melt at 119°. It was therefore camphor, and is present in the oil to the extent of 18 to 20 per cent. The fraction boiling between 125° and 130° at 30 mm. gave a white deposit on cooling, which had the following characters: Melting-point, 8°; specific gravity, 1.090; refractive index, 1.535; and formula, $C_{10}H_{16}O_2$. It was therefore safrole. This was confirmed by the preparation of its nitrosite, which melted at 129°-130°. The fraction boiling between 140° and 150° at the same pressure yielded an oil boiling at 146°-147°, or 244° at normal pressure, and yielding a tribromo-derivative melting at 77°-78°. It yielded veratric acid on oxidation, and was eugenyl methyl ether, its analysis confirming this composition. This constituted from 40 to 45 per cent. of the oil. The oil distilled from the leaves contained about 25 per cent. of a mixture of pinene and a second terpene, which was probably phellandrene, about 60 per cent. of dextro-camphor, and 15 per cent. of a mixture of phenols and substances not identified. The author points out that Smith suspected the presence of cineol, eugenol, and cinnamic aldehyde, but that no terpene of low boiling-point was present. Smith's conclusions must therefore be regarded as inaccurate.

MOUNET-SULLY, the regretted tragedian, was the son of a pharmacist at Bergerac.

Medical Gleanings.

Brilliant Green as an Antiseptic.

MR. ARCHIBALD LEITCH, M.B., pathologist to the Cancer Hospital, in the "British Medical Journal," 1916, I, p. 236, gives particulars of the use of brilliant green as an antiseptic in surgery. Brilliant green, an aniline dye, is the sulphate or zinc double chloride, rarely the oxalate, of tetraethyl-diamido-triphenyl carbinol, which was discovered in 1879. It is also known as malachite green, ethyl green, emerald green, etc. Mr. Leitch points out that Drs. C. H. Browning and W. Gilmour first mentioned the bactericidal properties of various aniline dyes, and indicated that brilliant green gave the best results in the test-tube. The author, in consequence of these experiments, introduced the use of brilliant green in surgery. He uses it of the strength of 1 in 1,000 of distilled water or normal saline solution. The solution, which may be turbid at first, clears up on standing. It stains the skin, but spirit readily removes the stain, while, if the solution is spilt on the bedclothes accidentally, washing removes the colour. The wound is first cleaned out with swabs and saline solution, and then syringed with brilliant-green solution and packed with gauze swabs soaked in the liquid. It is added that crystal violet is also strongly bactericidal, and might be employed to supplement the action of brilliant green.

Treatment of Burns.

"AMBEINE" is the petroleum-wax preparation which is used in the paraffin treatment of burns. It is a semi-transparent substance prepared under the supervision of Dr. B. de Sandfort and used at the Hôpital St. Nicholas, Issy-les-Moulineux, Paris. A sample of it sent to the "British Medical Journal" has been examined by Squire & Son, who find it has the following properties:

Melting point	50° C. (122° F.)
Specific gravity at 15.5° C. (60° F.)	0.908
Acid-value	1.12
Ester-value	4.5
Sapon-value	5.62
Ash	Nil

The wax has a violet hue, which is due to insoluble matter in suspension. Our contemporary says that it is not a treatment, but a form of dressing, the wax being heated to 80° C., and sprayed on to the burn until the surface is dull, or, in other words, until its colour is obscured by a fine delicate screen of wax. Then a second layer is applied by means of a paint-brush, the completed pellicle then being covered by a thin layer of cotton-wool, kept in place either by a bandage or a few dabs of wax. (See "B.M.J." 1916, ii., 333.)

Mercury Cream for Intramuscular Injection.

The following is the method carried out at Haslar Hospital, as communicated to the Royal Commission on Venereal Diseases by Surgeon G. B. Scott. The main points of an ideal cream are:

- (1) The mercury must be in an extremely fine state of subdivision.
- (2) The basis should be sufficiently fluid at ordinary temperatures to work freely in the syringe and needles, but viscid enough to suspend the metal.
- (3) There should be no abrupt transition on warming from the fairly solid to the liquid state.

Formula of Cream Issued to the Royal Navy.

Mercury	20 parts	} by weight.
Anhydrous lanoline	30 "	
Chlorbutol	2 "	

And liquid paraffin up to 100 parts by measure.

This contains one grain of mercury in five minims.

Preparation.—Redistilled mercury is purified by allowing it to flow in a thin stream through a long column of nitric acid. It is then washed in distilled water and filtered through chamois leather. The lanoline is sterilised by heat and filtered. One part of lanoline is placed in the mill and two parts of mercury added gradually as the globules disappear. Trituration is continued until a small portion examined under a microscope shows the mercury to be properly subdivided. This paste is cautiously heated in a porcelain dish with the remainder of the proper proportion of lanoline, being finally diluted to the definite required measure with sterilised paraffin, in which the chlorbutol has been dissolved. It is then strained through sterile gauze and poured into bottles of 2 oz. capacity ready for use.

THE EXPORTS OF CARNATBA WAX from Brazil during 1915 amounted to 5,897,378 kilos., against 3,315,693 kilos. in 1914, the values being 4,380,594 milreis gold and 3,049,219 m.g. respectively (milreis gold = 2s. 3d.).

Trade-marks Applied for.

The figures in parentheses refer to the classes in which the marks are grouped, for a list of which, with particulars as to registration, see "The Chemist and Druggist Diary," 1916, p. 365.

(From the "Trade-marks Journal," September 6, 1916.)

- "ONYX"; for goods (1). By R. Davidson & Co., Ltd., 158 Vauxhall Road, Liverpool. 373,949.
Picture of drummer; also foreign characters device; for dyes (1 and 4). By Wm. Edge & Sons, Ltd., 50 Raphael Street, Bolton. 374,054/55/56/57. (Associated.)
"ENDAZZLE"; for chemical fluxes (1). By Acetylene Illuminating Co., Ltd., 268 South Lambeth Road, S.W. 374,166.
"ANTOZONE EXTERMININE" ("Antozone" disclaimed); for a liquid insecticide for vermin (2). By J. S. Hay, 22 Mal-low Street, Old Street, E.C. 372,137.
"SULFEX"; for a plant-wash (2). By the Yalding Manu-facturing Co., Ltd., Yalding. 373,754.
"PLYTOL"; for disinfectants, sheep-dips, etc. (2). By Wood & Co., 34 Oxford Street, W. 374,126.
Device of two-faced head (for use only in Greece and Africa); for medicinal chemicals (3) and for food-sub-stances (42). By W. J. Bush & Co., Ltd., 28 Ash Grove, N.E. 373,129/30.
"KROKOL"; for all goods (3). By Evans Sons Lescher & Webb, Ltd., Liverpool. 373,850.
"DIODIAL"; for all goods (3). By Society of Chemical Industry in Basle, 141 227 Klybeckstrasse, Basle. 373,863. (Associated.)
Device of globe and bath; for medicinal chemicals (3). By Tokalon, Ltd., 212-214 Great Portland Street, W. 374,065. (Associated.)
"CLINCHER"; for camphor, bitumen, and indiarubber substitutes (4). By the North British Rubber Co., Ltd., Edinburgh. 372,725.
"AEROCAM"; for photographic apparatus (8). By the Williamson Kinematograph Co., Ltd., 28 Denmark Street, W.C. 373,260.
"VATOME"; for a safety-razor blade (12). By G. T. Money, 1A and 3 Knottisford Street, N.E. 373,672.
"REFLECTION"; for all goods (42). By J. F. Turner & Co., Ltd., 22 Mathew Street, Liverpool. 372,944.
"JEFFOLNE"; for all goods (42). By Bigland, Sons & Jeffreys, 11 and 13 Rumford Street, Liverpool. 373,936.
"ELPO"; for all goods (47). By O. McCardell & Co., Old-ham Road, Manchester. 374,082.
Device with words "PARFUMERIE CHAMPAGNE," etc., and champagne-bottle; for perfumery, etc. (48). By J. Henry, 14 Buckingham Palace Road, S.W. 373,293.
"PURITAN"; for a polishing-preparation (50). By C. Thomas & Bros., Ltd., Bristol. 373,855. (Associated.)

(From the "Trade-marks Journal," September 13, 1916.)

- "INSECTOX" and "VERMIFECTAS"; for chemicals (2) and for medicinal chemicals (3). By Heppell & Co., 164 Piccadilly, W. 373,822/3 and 374,174/5.
"SCLFINETTE" and "SENOID"; for plant-washes (2). By the Yalding Manufacturing Co., Ltd., Yalding. 374,233/4.
"REUFEL BATH SALTRATES" on scroll; for bath chemicals (3). By Tokalon, Ltd., 212-214 Great Portland Street, W. 374,064. (Associated.)

American Drug and Chemical Markets.

The following have been the chief movements in chemi-cals and drugs up to date of September 2: *Salicylates* have been reduced, as expected, *acid* by 50c. to \$1.75, *sodium* salicylate by 30c. to 45c. to \$1.80, *salol* by 25c. to \$3.50 to \$3.75, and *methyl salicylate* 25c. to \$1.75 to \$1.85. *Quick-silver* was advanced by \$3 to \$80 per bottle. *Phenol-phthalin* is very scarce and quoted up to \$28. *Phenacetin* is held for \$35 per lb., and *phenazone* for \$24 to \$25. *Quinine* steady at 63c. to 65c. per oz. *Guaiacol carb.* is quoted at \$2.25 per oz. *Tartaric-acid* crystals offer at 69c. to 71c., and powdered at 69c., while *citric* is offered at 64c. to 65c. *Platinum* has advanced \$20 per oz. to \$80 to \$86 as to fineness and hardness. *Cresote* (beechwood) is \$2.50 to \$2.75. *Peppermint oil* is 10c. to 15c. higher at \$2.20 to \$2.25 for bulk. *Silver nitrate* advanced to 42½c. to 44½c. *Acetate of lime* declined by \$2 to \$5 to \$5.05 per cwt., and *acetone* dropped 10c. in sympathy, as also all grades *acetic acid*, glacial offering at 32c. per lb. *Opium* is 15c. cheaper at \$10.75. *Glycerin* has been in heavy demand for dynamite grades from explosive-makers, and sales of car-lots have been made at 37½c. to 38c.; c.p. in drums is dearer at 37c., and in cases 38c. *Strontium nitrate* has been reduced to 30c. to 31c.

Trade Report.

The prices given in this section are those obtained by importers or manufacturers for bulk quantities or original packages. To these prices various charges have to be added, whereby values are in many instances greatly augmented before wholesale dealers receive the goods into stock, after which much expense may be incurred in garbling and the like. Qualities of chemicals, drugs, oils, and many other commodities vary greatly, and higher prices than those here quoted are charged for selected qualities of natural products even in bulk quantities. Retail buyers cannot, therefore, for these and other reasons, expect to purchase at the prices quoted here.

42 Cannon Street, E.C., September 14, 5.30 p.m.

A SOMEWHAT brighter tone is evident in the general markets this week, but the outlook for the imported pharmaceutical and synthetic products remains as it was, the undertone with one or two notable exceptions like phenacetin (not phenazone as mentioned in this column last week) remaining easy. Menthol and Japanese oil of mint have had a spurt and are higher. West Indian lime oil and lime-juice are dearer. Chamomiles are much higher. Tartaric acid is rather firmer; citric is on the easy side; copper and ammonium sulphates are firmer. Japanese Monopoly camphor has been advanced 8s. 6d. to 9s. 6d. per cwt. Acetanilide, acetyl-salicylic acid, cocaine, and berga-mot oil are all in buyers' favour. Chinese crude antimony is dearer.

Higher	Firmer	Easier	Lower
Antimony (Ch. crude)	Ammon. sulphate	Acetanilide	Acetic acid
Camphor (Jap. monopoly)	Balsam Canada	Bergamot oil	Acetyl-salicylic acid
Chamomiles	Copper	Citric acid	Chillies (Jap.)
Cocoonut oil	sulphate	Cloves	Cocoa-butter
(Cochin spot)	Tartaric acid	Cocaine	Potash
Coumarin		Sarsaparilla	per mang.
Heliotropine			Turpentine
Lime-juice			
Linseed oil			
Menthol			
Mint oil (Jap.) (e.i.f.)			
Peppermint oil (American and H.G.H.)			

Cablegram.

NEW YORK, September 13.—Business in drugs is fair. Peppermint oil in tins is 5c. dearer at \$2.25. Hydrastis is 25c. cheaper at \$5.25. Cartagena ipecacuanha is higher at \$1.85. Taraxacum has been reduced to 27c. Senega is dearer at 60c.; gentian is lower at 18c., and balsam tolu is lower at 34½c.

ACETANILIDE.—Prices vary from 3s. 4½d. to 3s. 9d. per lb. as to quantity and seller.

ACETIC ACID is lower, with 80-per-cent. offering at from 35s. to 95s. per cwt. in casks ex wharf London.

ACETYL-SALICYLIC ACID.—Makers still quote 30s. per lb., and from dealers it is possible to buy at from 28s. to 29s. for prompt delivery.

ALOES.—The exports from the Union of South Africa during June 1916 amounted to 189,771 lb. (1,946½t.), against 45,761 lb. (372½t.) in June 1915. For the six months ended June 30, 1916, the shipments were 699,503 lb. (6,612½t.), against 306,602 lb. (2,316½t.) for the corresponding period of 1915.

AMIDOPYRIN for prompt delivery is offering at from 58s. per lb. upwards.

AMMONIA SULPHATE.—Quiet. Home trade prices are 15l. for September and 15l. 10s. for October-May. Export prices are: London, prompt, 25-per-cent., 16l. 17s. 6d. to 17l. per ton net, naked at works; Hull, 24-per-cent., 17l. 12s. 6d.; Liverpool, 17l. 17s. 6d.; Leith, 18l. spot and 18l. 2s. 6d. for October-December, less 3½ per cent. in bags f.o.b.

ANTIMONY.—Chinese crude is dearer, with sales in 5-ton lots at 50l. per ton on the spot, with 55l. asked at the close.

BERGAMOT OIL for prompt shipment is offering at the slightly easier rate of 23s. to 25s. c.i.f.

BUCHU.—The exports from the Union of South Africa during June 1916 amounted to 6,607 lb. (789½t.), against

7,314 lb. (720/.) during June 1915, and for the six months ending June 30, 1916, the shipments were 102,331 lb. (16,797/.), against 122,222 lb. (18,990/.) for the corresponding period of 1915.

CAMPHOR.—Quiet, with Japanese 2½-lb. slabs offering at 2s. 6d. per lb., 1-oz. tablets 2s. 6d., ¼-oz. 2s. 4d. on the spot. To arrive there appears to be little available judging by the paucity of offers. The exports from Japan during the six months ended June 30 were as follows:

To	1914 Kin	1915 Kin	1916 Kin
British India ...	411,422	632,497	794,987
Great Britain ...	266,224	254,978	612,827
France ...	141,983	369,275	232,510
Germany ...	252,370	—	—
U.S.A. ...	233,466	334,311	733,108
Australia ...	47,814	97,835	31,652
Other countries ...	125,438	176,952	346,902
Kin ...	1,475,722	1,865,848	2,751,986
Yen ...	1,319,754	1,680,520	2,564,712

The London stock of crude and refined on August 31, 1916, amounted to 1,953 packages, against 2,490 packages; the imports from January to August 1916 were 8,406, against 7,400, and the deliveries to 8,434, against 6,041 packages in 1915. The prices of Japanese Monopoly camphor have been raised by 8s. 6d. to 9s. 6d. per cwt. as to description, making the quotation for B.B. grade 164s. 6d. and B. 154s. 6d. per cwt. c.i.f. terms.

CANARY-SEED is quiet at from 95s. to 100s. per 464 lb. for Spanish ex store Liverpool.

CASCARA SAGRADA on spot is firm at from 60s. to 65s. per cwt. as to age and seller. From San Francisco the equivalent of 71s. f.o.b. is asked for two-year-old.

CASTOR OIL.—Firm, English medicinal offering at 57s. 6d. per cwt. in barrels, and first pressing at 52s. 6d. Medicinal French on spot is 75s. to 76s., and ex store Liverpool from 5d. to 5½d. per lb. is quoted.

CHAMOMILES.—Dearer. Spot parcels offer at 205s. per cwt., but supplies are only small, and to arrive 225s. is asked for old-crop Belgian.

CHILLIES.—At auction 191 bales Mombasa offered, and twenty sold at 105s. for ordinary dull; 40 bags Japanese sold without reserve at 89s. for good red, being lower.

CINCHONA.—The first-hand stock at Amsterdam on September 7 consisted of 6,327 packages Government and 35,631 packages private bark, making a total of 41,958 packages, including the first-hand packages to be offered on September 27 and 28. The auction of pharmaceutical bark to be held at Amsterdam on Thursday, September 23, will consist of 1,813 packages, weighing 96,595 kilos. At the London auction on Tuesday 1,067 packages offered and about 800 sold, the average unit being 2½d. per lb. Of East Indian 375 bales and 182 cases offered, and about half sold, including bold silvery officialis quill at 8½d. to 1s., broken quill 10½d., natural stem chips and shavings 6½d. to 10½d., stout root 10d. to 11½d.; of West African, 510 bales sold, good stout Succirubra quill 6½d. to 7d., broken quill and chips 5½d. to 6d. per lb.

CITRIC ACID is slightly easier at 2s. 10d. per lb.

CLOVES.—Dull, with spot sellers of fair Zanzibar at 7½d. to arrive, July-September shipment, at 6½d. c.i.f., and October-December delivery at 7½d. per lb.

COCAINE is in easier tendency for imports from America, but for leading Continental make 18s. 6d. per oz. net is still quoted for hydrochloride.

COCA-LEAVES.—No auction will be held at Amsterdam on September 28.

COCOA-BUTTER is lower, with sellers of English at from 1s. 11½d. to 2s. per lb.

COD-LIVER OIL.—Our Bergen correspondent writes on September 4 that the market is extremely quiet with sales of a limited quantity of finest non-congealing oil at the unaltered rate of 550s. per barrel.

COPPER SULPHATE is rather firmer at from 50l. to 50l. 10s. per ton for the usual Liverpool brands for prompt and up to December.

CUMARIN is dearer and scarce at 47s. 6d. per lb.

ERGOT is flat, with sellers of Spanish or Russian at 2s. per lb. spot.

EUCALYPTUS OIL is offered at 2s. 3d. for 70-per-cent., 2s. 2d. for 60-per-cent., and at 2s. 6d. for globulus.

GENTIAN is in fair demand: to arrive 80s. to 85s. c.i.f. is quoted.

GINGER.—At auction 16 bags of common small Jamaica sold at 82s.; 573 bags washed Cochin were bought in at 47s. for fair, and 168 bags lined Japanese were retired at 40s.

HELOTROPINE.—Dearer. Sales have been made at 26s., with 26s. 6d. per lb. asked.

LANOLINE.—The value of good B.P. anhydrous is from 3s. to 3s. 6d. per lb. and hydrous 6d. less.

LEMON OIL remains firm, prices varying from 3s. 9d. up to 4s. 6d. per lb. c.i.f., according to seller, spot varying from 3s. 9d. to 4s. A Sicilian advice, dated September 9, states that the market for Messina essences in general has been dull during the previous fortnight. As regards new crop of lemon oil, it might be possible to find some producers inclined to sell for delivery in the first months of next year.

LIME-JUICE is dearer owing to a large Government order having been placed, and current prices are from 3s. 3d. to 3s. 6d. per gal. for ordinary to good raw West Indian juice. The island of Dominica, which has been visited by a severe hurricane, is one of the principal sources of supply, but this has not affected the market so much as the Government requirements, which have now left the market bare. We note the arrival of 412 packages, mostly from Dominica.

LIME OIL.—The hurricane in Dominica, which has caused loss of life and widespread destruction, has put another complexion on a previously weak spot market and prices are nominal.

LIQORICE-ROOT.—Some arrivals have taken place from Spain, the values of natural being from 55s. to 60s. per cwt. c.i.f. according to freight payable. Cut decorticated is worth about 105s.

LYCOPodium remains plentiful, with prices on the easy side at from 4s. 6d. to 5s. per lb. as to quantity.

MENTHOL is dearer, with spot sales at from 10s. 10½d. to 11s. 3d. per lb. for Kobayashi-Suzuki, and to arrive from Japan 13s. c.i.f. is quoted. Sales from second-hand have been made at 10s. 9d. c.i.f. for August-September shipment.

METHYL SALICYLATE is slow of sale at about 9s. per lb. for American on the spot.

MINT OIL.—A fair business has been done in Japanese dementolised Kobayashi and (or) Suzuki from second-hands at 3s. 9d. to 3s. 10½d. per lb. c.i.f. terms for August-September and October-November shipment, but 4s. is asked at the close. The spot price is 4s.

NIX VOMICA remains on the easy side, fair Cochin offering at 26s. and slightly less.

OILS (FIXED).—Linsed is the turn higher at 36s. in pipes landed and 37s. in barrels. Cottonseed is unchanged at 34s. 6d. for crude in pipes on spot, 40s. for refined in pipes, and 48s. to 51s. 6d. for sweet refined in barrels. Rape is firm; ordinary brown naked on spot is nominal at 44s., British refined in barrels is 46s. to 48s., and Japanese in cases is nominal at 44s. c.i.f. afloat. Coconut is steady at 48s. for Ceylon in hogsheads on spot and 46s. in pipes. Cochin on spot is dearer at 50s. to 53s., and London pressed is 41s. per cwt. Hankow Wood oil is 51s. spot and 49s. c.i.f. Soya is steady at 37s. 6d. c.i.f. for August-September shipment.

OPIMUM.—With business under the strict control of the Home Office, who have refused to grant permits to purchase by several merchants, there is nothing new to report. Opium, however, for medicinal purposes is selling through the recognised channels. Turkey druggists' is worth about 35s. and Persian 23s. per lb. on the spot.

PEPPER.—Quiet, with sellers of fair black Singapore at 8d., Lampong 8½d., and Tellicherry 9d. on spot. Sellers of fair white Singapore ask 9½d., Penang 9½d., and Muntok 9½d., all spot.

PEPPERMINT OIL.—The market is still tending upwards for American oil in bulk, the forward quotations being from 10s. 3d. to 10s. 6d. per lb., but on the spot a limited quantity could be had from second-hands at 10s. for a good brand. H.G.H. is also a rising market in sympathy with bulk oil, and spot sales have been made at from 13s. 3d. to 14s. London terms.

PHENACETIN.—Small spot sales have been made at 105s. per lb., but the scarcity continues.

PILOCARPINE is firmer and scarce at about 23s. per oz. net for hydrochloride.

PIMENTO.—Slow, with sellers at 3½d. per lb. spot.

POTASH PERMANGANATE.—Prices vary considerably as to holder at from 6s. 2d. to 7s. per lb.

POTASH SULPHOGUAIACOLATE.—Sales have been made at from 63s. to 64s. per lb. for prompt delivery.

SALICYLATES.—Good B.P. make of salicylic acid is offered by English makers at 8s. per lb. for prompt delivery. Sodium salicylate (U.S.P.) is quoted at 9s. 6d.

SANDALWOOD OIL.—An arrival of 21 cases has taken place from Madras.

SARSAPARILLA.—About forty bales grey Jamaica have arrived and will be offered next week. Red native Jamaica is selling at from 1s. to 1s. 2d. per lb.

SENEGAL.—Sales on spot have been made at up to 3s. net, but for good 3s. 2d. to 3s. 3d. is now asked: a fair quantity has been sold.

SHELLAC remains firm, but practically unchanged on the week, the spot values of usual standard TN Orange being from 131s. to 132s.; fine Orange is from 150s. to 155s.; and AC Garnet 135s. to 137s. 6d. Futures steady, sales including TN for October delivery at 131s. to 131s. 6d. and December 134s. to 133s. 6d. to 134s.

SODA HYPOSULPHITE is offered at 15s. per cwt. for finest pea crystals ex wharf London.

SODA NITRATE is firm at 17s. 6d. to 18s. per cwt. for ordinary and 18s. 6d. for refined net cash ex store Liverpool; spot is 18s. 3d. and 18s. 6d. respectively.

SPARTEINE is offered at 43s. per lb. and upwards.

SCIPHONAL.—Spot sellers quote 31s. 6d. to 32s. 6d. per lb.

TARTARIC ACID is rather firmer and in fair demand at from 2s. 9d. to 2s. 11d. per lb. as to holder and delivery.

TERPINOL is offered at 2s. 8d. per lb. for prompt delivery.

TERPENTINE closes lower at 42s. 6d. for American on spot, and 43s. 3d. for October-December delivery.

VANILLA.—At auction on Tuesday the large supply of 1,100 tins offered, and practically all sold at about the previous November auction prices; of Seychelles 568 tins offered and chiefly sold, comprising first 4 to 8 in. 5s. 6d. to 9s. 6d., seconds 6s. 9d. to 7s. 6d., brown and split 4s. 9d. to 8s., and mouldy 1s. to 4s.; of Madagascar, 407 tins offered and mostly sold, including first, 7 to 8½ in. 8s. 6d. to 10s. 6d., 4 to 6½ in. 7s. to 8s., lean 6 to 7 in. 7s. 9d. to 8s. 3d., seconds 5s. 9d. to 7s., cut 5s. 6d. to 7s. 3d., and mouldy 1s. 9d. to 3s. 9d.; 77 tins Mauritius sold, comprising 4 to 9 in. 6s. 6d. to 8s. 9d., seconds 6s. 6d. to 7s., foxy and split 7s. 3d. to 7s. 6d., mouldy 1s. to 1s. 9d.; 19 tins Ceylon sold, 6 to 8 in. 8s., 3 to 7½ in. 6s. 6d. to 7s. 6d., mouldy 1s. 9d. to 2s. per lb.

Continental Drug and Chemical Markets.

The following notes chiefly refer to the Hamburg and Berlin markets up to August 23:

AMMON. CHLORIDE steadily advances in price in consequence of active demand, increasing scarcity, and dearth of the raw material. C.p. is m.140 to m.145.

CALABAR BEANS are in active demand, and prices have advanced.

CARRAGHEEN MOSS is cheaper, as large quantities have been imported, and further parcels are expected. Finest natural for prompt delivery is m.350 to m.360; pale fine "elect." m.390 to m.400.

CREOSOTE ex beech-tar is from m.440 to m.450 per 100 kilos.

DEXTNIN is not to be had from the makers. The demand is very active, and prices have advanced further; from m.175 to m.180 must be paid.

FISH-GLUE.—Genuine Saliensky has been offered in large quantities of late, and prices are a little lower at from m.38 to m.40.

GENTIAN is extremely scarce, but a small quantity is expected shortly, and is offered at from m.400 to m.410 per 100 kilos, for whole.

IPECACUANHA remains firm, and is slightly higher.

KAVA-KAVA is obtainable in small quantities at from m.300 to m.350 per 100 kilos.; there is practically no demand.

KOLA is again 10 per cent. higher, in consequence of increased demand.

LEAD ACETATE has again been advanced by the makers: first crystals are from m.165 to m.170; small crystals and powder from m.160 to m.165; c.p. crystals D.A.B. V., m.180 per 100 kilos.

QUICKSILVER is extremely scarce; for the small remaining stocks from m.16.50 to m.17 per kilo. is asked.

QUILLAIMA.—Cut, which had advanced to m.490 per 100 kilos., is now quoted at m.460, as arrivals have taken place in Berlin.

SHELLAC is scarce, and only small quantities are to be had. The importation of all grades ceased several months ago. A few cases of T.N. are offered at from m.825 to m.840 per 100 kilos., and finest orange and "lemony" lacs at from m.850 to m.875, according to quality.

THYME.—Prices are lower, as imports have taken place. French herb, free from sand or dust, is offered at from m.280 to m.290 per 100 kilos.

THYMOL is extremely scarce, and from m.85 to m.83 per kilo. is wanted.

VANILLIN.—Chemically pure (100 per cent.) is no longer to be had from the makers, and second-hands ask from m.130 to m.135 per kilo. for very small lots.

WAXES.—Bees' is higher in consequence of increased demand, but the quantities offered are only very small. *Carnauba* appears to be cleared in the Hamburg market. *Japanese* is also higher and active.

Arrivals of Chemicals, Drugs, etc.

The following is a selection of arrivals during the period from September 6 to 12 inclusive, in the English ports named. Goods in transit are not included.

To London.	Milk-sugar (N.Y.)	Chewing-gum 300 cs.
Acetanilide (N.Y.) 101 brls.	101 brls.	Chillies (E.I.) 168
29 brls.	Myrrh 10 cs.	Chloral hyd. (N.Y.) 15 cs.
Albumen 68	Nux vom. 1,730	Citronella oil (S'pore) 7 dms., (Cey.) 8 dms.
Alcohol (Montreal) 400 brls.	Olibanum 454	Cocaine, cr. (Colon) 7 cs.
Aloes (Aden) 8 cs., (Cape) 20	Olive oil (Fr.) 6 cks.	Copra 393
Antim. ore 1,812	18 cs.	Cream of tartar 15 cks.
Argol (Sp.) 59	Opium (B'bay) 100	Cumin-seed (Fr.) 440
Barytes (Sp.) 1,625	Pepper 60	Divi-divi 3,509
Borax (Fr.) 30, (N.Y.) 500 cks.	Peppermint oil (N.Y.) 10 cs.	Drugs and medicines (Boston) 91 cs., (N.Y.) 54 pkgs.
Calcium borate 8,880	Petrolatum 20	Essential oils (N.Y.) 17 pkgs.
Cinnabam 194	Potash bicarb. 24 cks.	Formaldehyde (Boston) 112
Cardamom 140	Potash carb. 46 pkgs. 166 brls.	Galls (Ch.) 100 cs.
Cassia 454	Potash caustic 4	Gentian (Sp.) 212 bgs.
Castor oil (E.I.) 1,303 cks.	Potash chlor. (It.) 200 brls.	Glycerin (Sp.) 27 dms., (Fr.) 155 dms. 418 cks.
Castor-seed 1,366 bgs.	Potashes (N.Y.) 18 brls.	Ground-nuts 3,545
Chaulmoogra oil 6 pkgs.	Quicksilver (N.Y.) 150	Guarana 2 cs.
Chemical products (Fr.) 136 pkgs. 20 cks. 8 cs., (N.Y.) 286 pkgs.	Quillaia 139	Honey (Frisco) 845 cs., (Curaçao) 347 brls.
Chewing-gum 502 cs.	Quinine (Amst.) 40 cs.	Ipecacuanha (M.) 8
Chillies (E.I.) 73	Roots, barks, herbs, etc. (Fr.) 17	Lactic acid (Boston) 131
Chiretta 50	Safrol (N.Y.) 140 cs.	Liquorice-ju. (Fr.) 83 cs.
Citronella oil (Cey.) 40 dms.	Saltpetre 3,615	Nut oil (Fr.) 25 cks.
Cloves 179	Sandalwood oil (Madras) 21	Oils, fixed: Fish 1,991 cs., olive (Fr.) 174 cs. (Sp.) 18 brls., peanut 2,319 cs. 100 dms.
Coconut oil 100 pps. 176 pkgs. 225 cks.	Sandalwood-chips 452	Orchella 49 bls.
Colocynth (Sp.) 2 cs.	Senna (Tv.) 343, (Suez) 113	Palm-kernels 86,755 bgs. 349 tons
Cream of tartar (Fr.) 10 cks. 178 pkgs.	Sesame-seed 43,552 bgs.	Palm oil 4,298 cks.
Cryolite 50	Shellac 75	P a r a nitranilino (N.Y.) 5 bgs.
Cubebis 44	Soda ash (Montreal) 200 brls., (N.Y.) 100	Paranitro-acetanilide (N.Y.) 20 brls.
Dill-seed 100	Soda bichrom. (N.Y.) 10 brls.	Pepper, wh. (Penang) 171
Divi-divi 857	Soda caustic (N.Y.) 172 dms.	Peptone (N.Y.) 10 pkgs.
Drugs (R'dam) 42 pkgs.	Soda nitrate 50,075 bgs.	Quebracho ext. 31,577 bgs.
Dyes (Boston) 18 cs.	Soda salicylate (N.Y.) 11 brls. 42 kgs.	Roots, barks, etc. (Fr.) 14 bls.
Essential oils (Sp.) 4 dms., (N.Y.) 155 cs.	Tamarinds (E.I.) 25	Saffron 1 cs.
Ginger (B'bay) 90, (N.Y.) 17	Tannic ac. (N.Y.) 20	Saltpetre 250
Glucose 810	Tartar (Sp.) 33	Seeds: Dill 168, fennel 136, mustard 287, Niger 278, poppy 586
G. acacia (E.I.) 270, (Suez) 87	Tartaric ac. (It.) 4 brls.	Soda bromide (N.Y.) 7 brls.
G. copal 40	Thermos flasks (Jap.) 40 cs.	Soda nitrate 553
Gums, undescribed (E.I.) 183, (Fr.) 114 bls.	Thorium nit. (U.S.A.) 20 cs.	Soda salicyl. (N.Y.) 11 brls.
Honey (N.Y.) 54 brls.	Thymic (Sp.) 45 bls.	Soy (Ch.) 100 cks.
Indigo (E.I.) 113 cs.	Turmeric 275	Tartaric acid (It.) 196 brls.
Kola (Cey.) 20	Wax, bees' (B'bay, etc.) 71 pkgs., (Aden) 118, (Marseilles) 370 bls., (Madras) 39	Vaseline 51 brls.
Lactogen (Melbourne) 125 cs.	To Liverpool.	Wax, bees' (W.C. Af.) 7 pkgs. 280 tes., (Rio) 133
Lavender oil (Fr.) 6 cs.	Acetic acid (N.Y.) 29 dms.	
Linseed (E.I.) 45,815 bgs.	Aloes (N.Y.) 15	
Liquorice-juice (U.S.A.) 200 cs.	Antim. ore 950 bgs.	
Liquorice-root (Sp.) 182, (Fr.) 14	Argol (Port.) 40	
Listerine (N.Y.) 137 cs.	Arsenic (Sattle) 702 brls.	
Lithopone 120	Babassu kern. (Para) 200	
Lycopodium 5 cs.	"Balsams" (Brazil, etc.) 524 pkgs.	
Methyl salicyl. (H-Kong) 22 cs., (N.Y.) 100 cs.	Canary-seed (R. Plate) 1,564	
Milk-powder 100	To Bristol.—Alcohol (Montreal) 300 brls.; cream of tartar 5; milk-powder 20 cs.; potashes (Montreal) 14 brls.	
	To Folkestone.—Drugs (Fr.) 27 pkgs.; essential oils (Fr.) 37 cs.; perfumed spirits (Fr.) 6 cs.; perfumery (Fr.) 113 pkgs.	
	To Hull.—Ammonia (U.S.A.) 33 cys.; castor-seed 4,918; barytes (It.) 1,350; gum acacia (P. Sudan) 3,103 bgs.; lemon-juice 14 pps.; linseed (E.I.) 39,514 bgs.; quinine (Amst.) 40 cs.; rapeseed 7,824; tartaric acid (It.) 40 brls.; maize starch (R'dam) 200 cs.; palm-kern. (W.C. Af.) 28,088 pkgs.; palm oil 133 brls.; soya-beans 7,077 tons 14 cwt.; wax, bees' (W.C. Af.) 120 bls. 349 pkgs.	
	To Manchester.—Calcium chloride (Mont.) 2,972 dms.; glucose 240; peptone (N.Y.) 9 pkgs.; phosphorus (Mont.) 300 cs.; soda chlorate (Mont.) 400 dms.; soda perborate 19 cks.	
	To Birmingham.—Logwood 2,970 tons.	
	To Manchester.—Ammon. nit. 41 cks.; chemical products (Naples) 20 cs.; cream of tartar (Palermo) 10 kgs. 10 cks.; lithopone 480 cks.; medicinal herbs (It.) 50 bls.; olive oil (It.) 130 bxs.; soda nitrite 189 cks.; sulphur (It.) 8,100 bgs.; tartaric acid (It.) 212 brls.	
	To Southampton.—Casein (Fr.) 61; beeswax (Fr.) 14.	

Correspondence

Letters for this section should be written on one side of the paper only. The writer may adopt an assumed name for purposes of publication, but he must in all cases furnish his real name and address to the Editor.

Merthyr Pricing.

SIR,—In reference to your report (*C. & D.*, September 9, p. 47) of the meeting of the Merthyr Pharmaceutical Committee on August 30, I wish to point out to your readers that the Committee expressed "indignation at local pricing" and not the checking. As the checking is done so excellently by the Central Checking Bureau it is only fair to them to remove this erroneous impression.

I am, faithfully yours,

Merthyr Tydvil.

V. A. WILLS, Chairman.

Are we Downhearted? Yes!

A *Practical Panel Chemist* (71/33) uses this title for a letter that he writes in regard to Insurance dispensing and its conduct in London. He says there will be no Pharmaceutical Committee meeting until October 4. "What then? Wait and see. History repeats itself." Proceeding, he expresses the opinion that at the May Conference Association delegates were bluffed, and by four officials who control the whole Insurance dispensing business. He cannot understand why chemists submitted to a discount of 50 per cent., or supply jars of malt and oil costing 2s. for a fee of 2½d., a gross profit of 5 per cent. on cost. "Wake up, London chemists, to the iniquity of your position!" is his concluding cry.

What Ought I to Charge?

SIR,—In receiving goods from wholesale houses one is frequently at a loss to know what to charge owing to the long delay in arrival of invoices and the cost or even retail price being unknown. The inconvenience arising from these delays, which no doubt are often unavoidable, may be somewhat mitigated by putting the cost or retail price on the wrappings of goods supplied. A few houses frequently do this, and its convenience is apparent, as guessing is avoided, and a customer, who may be leaving the neighbourhood, is spared the irritation of a possible excessive charge. I have now on hand a part of an appliance waiting for customer's call, and I have not the slightest idea of its relative value as no invoice is to hand. Again, I occasionally have articles the prices of which are ascertainable, but later on I find they are charged for smaller packages. Possibly this state of things is unavoidable under war conditions, but, as a system, it was in vogue before the war, though not so aggravated. The retailer will appreciate any effort the wholesaler may make to help to lessen the difficulty.

Yours truly,

RETAILER. (69/44.)

Sale of Petrol.

SIR,—I appealed to the Petrol Control Committee for permission to sell in small quantities over the counter for industrial and domestic purposes, having made an arrangement with our local police to that effect. I beg to enclose their reply. I explained all the circumstances as to sale and uses.

Faithfully yours,

Hyde.

FRED SWINDELLS.

[The letter is as follows:

Petrol Control Committee, 19 Berkeley Street, London, W.
August 30th, 1916.

SIR,—I have to acknowledge the receipt of your letter of the 22nd August, and in reply to state that under the Section 15 of the Finance Act, 1916, motor-spirit within the meaning of Finance (1909-10) Act, 1910, may not be purchased by any person who does not hold a licence issued by this Committee, in which at the time of purchase the necessary particulars of the amount purchased and the name and address of the supplier must be entered.

I am, Sir, your obedient servant,

Fred Swindells, Esq.

P. G. L. WEBB.

This is in accordance with what the Committee informed us (*C. & D.*, September 2, p. 43). We now learn that benzine cannot be got by wholesale buyers, and that borrowing petrol from motor-men and using non-inflammable substitutes are the trend of the times.—EDITOR *C. & D.*

Chemists' Assistants' Salaries.

SIR,—It would be interesting to know whether your correspondent "Assistant" is in his first or second childhood. I hope, for his sake, that the former is the case, as then he may grow to realise that in all probability he is being

paid precisely what he is worth. That he is not worth more than his present salary is his own affair. To attempt to compare the unqualified assistant or the majority of qualified men with doctors and solicitors is ridiculous. Incidentally neither of these is earning 3*l.* per week at the age of twenty-one. They are much more likely to be expending 20*l.* a year in qualifying for their professions. As regards the Civil Service I can speak from experience. Almost without exception Civil Servants at the age of twenty-one are earning less than 90*l.* per annum; in very many cases a great deal less than this sum. They, however, have the advantage of somewhat shorter hours. Should "Assistant" consider this preferable to his present post, I would remind him that most Civil Service appointments are by open competitions, and if he is capable of successfully taking the examinations, which are by no means lightly contested, there is not the least reason why he should not enter the Service himself. He will be most rapidly and effectively disillusioned.

Yours faithfully,

CIVIL SERVANT. (70/33.)

SIR,—"Assistant" is too angry to be accurate. Assistants' salaries *have* gone up considerably in recent years—if the figures for locums recently given by you are any indication they are going up by leaps and bounds. I suspect that as regards pay the servant is often as well off as his master in our business, and certainly the net incomes of the latter have not in my time increased in the same ratio as salaries. The demand for a minimum salary in a profession in which the conditions vary so greatly is unreasonable, and the figure named as a minimum would be prohibitive to half the pharmacists who employ assistants. It is rather more than Civil Servants of the First Division, who are usually University Honours men, commence at, and the salaries of these men have not advanced a penny for many years; even those who are now working double time are doing so at the old rate. Schoolmasters, speaking generally, are among the worst-paid classes in the country, and a good many of the solicitors' clerks I have known have had to work for their articles. But this is beside the mark; get salaries raised if you can, but you cannot raise them above what the trade can bear. Meanwhile I suggest that assistants when they advertise for a place should state what salary they require. Not a single one of those advertising in last week's *C. & D.* did so, and only two firms wanting assistants (one of them a company) say what salary will be given. This is not the way to improve matters, and it strikes me as unbusinesslike, to say the least of it.—Yours truly,

SENEX. (70/41.)

Subscribers' Symposium.

For interchange of opinion among "C. & D." readers, and brief notes on business and practical topics, especially new ideas.

Making a Mistake.

"Perhaps some brother chemist may be able to inform me how to deal with such customers as the following, for I am quite sure most chemists will have had similar experience. The other night a female customer produced a bottle and asked for 3*d.* essence of peppermint. The essence was supplied, and the woman left the shop. The next morning, soon after the shop was opened, in came the woman, producing a bottle containing a brown liquid, and, in a state of excitement, accused the chemist of making a mistake by saying that she had asked for essence of peppermint, which is the colour of water, whereas the liquid in the bottle she had brought was a different colour. After the woman had composed herself I began a series of questions, and suggested that possibly the bottle had had something else in it; the woman insisted, however, that I was just as liable to make a mistake as anybody else, and that she had washed her bottle out well before coming for the peppermint. But it was found out that the brown liquid now produced tasted of peppermint, and in the bottom of the bottle a brown sediment was noticed. I explained to the customer that the fault lay with her—her bottle was not clean. But the point is, I was wrongly accused, and the woman appeared not to believe my explanation. How are chemists to act under such circumstances?"—Gantier (68/14).

Legal Queries.

The majority of difficulties in regard to trade law are explained in the legal section of "The Chemist and Druggist Diary," 1916, beginning on page 347.

Aq. Dest. (71/72).—Distilled water used for blending whisky has not to pay aerated-water duty. See *C. & D.*, June 24, p. 37. The Board of Customs and Excise has ruled that "non-aerated distilled water will not be charged with

duty unless it is sold or kept for sale as a beverage." Sale for whisky-blending is not regarded by the Board to be "sale as a beverage," and we cannot realise how it could be.

H. A. (62/9) bought a house two years ago, and paid the solicitor a sum to cover the auctioneer's fees as well as his own. The solicitor has become bankrupt, and it transpires that he did not hand over to the auctioneer the amount due to him. Is "H. A." liable to pay the auctioneer's charges? Is a debt contracted three years ago recoverable? [We are of opinion that "H. A." must pay the auctioneer his fees, unless the latter authorised payment of the amount to the solicitor. "H. A." can, of course, prove in the solicitor's bankruptcy for the sum which should have been handed over to the auctioneer. A debt is not, in any case, statute-barred until after the lapse of six years.]

Miscellaneous Inquiries.

Bruno (66/30).—COLD-CREAM FOR THEATRICAL PURPOSES.—Perhaps the following will suit your purpose:

Spermaceti	8 oz.
White wax	24 oz.
Liquid paraffin	128 oz.
Borax	2 oz.
Water	64 oz.
Perfume as desired.	

Melt the spermaceti and wax on a water-bath, add the liquid paraffin, stir well; dissolve the borax in warm water (about 140° F.), add, with diligent agitation, to the paraffin-mixture. Cool steadily, with constant stirring; then add the perfume.

J. M. C. (67/25).—ALOPECIA IN CHILDREN is most commonly due to injuries to the head, such as falls and blows received in the course of play; but there are other causes, such as skin-diseases which affect the head—*e.g.*, ringworm. Occasionally cases of apparently infectious alopecia arcata break out in schools, and we reported two years ago an outbreak in an institution where 174 cases arose among 300 girls; the symptoms closely resembled ringworm, but had no other relation to that ailment. The treatment there was to wash with methylated spirit and soap, beta-naphthol and sulphur ointment being rubbed in afterwards. In some cases a blistering-fluid was applied, and in the most severe cases the head was shaved. X-ray treatment and electrical exposure, with the mercury-vapour lamp, are now much used by specialists. A good RINGWORM-OINTMENT is as follows:

Sulphur. præcip.	3ss.
Hydrarg. ammoniat.	3ss.
Acid. salicylic.	5j.
Adipis lane	3ss.
Paraffin. mollis	3ss.—M.

To be well rubbed in for ten minutes twice daily. All loose hairs should be pulled out.

Dentist (63/10).—Your gum-impression powder is similar to that given in "Pharmaceutical Formulas"—namely, a mixture of French chalk with gum dammar (see p. 166). We cannot, however, find any stearin in it.

F. J. H. (63/29).—The preservative used for peas nowadays is simply a 3-per-cent. solution of common salt in water. Formerly copper sulphate was used, but it is objected to by most food laws.

R. J. A. (64/34).—The following is one of the formulæ for SYRUP OF FIGS given in "Pharmaceutical Formulas," and makes an effective and agreeable preparation:

Ol. anisi	mxv.
Ol. carui	mxv.
Ext. cascariæ sag. liq.	5j.
Ext. sennæ liq.	5j.
Sodii bicarb.	3ss.
Syrup.	5viij.
Alcohol.	5j.
Syr. sennæ	5j.
Syr. ficorum, P.F., ad	3xviij.—M.

A mixture of rhubarb and senna syrups with the fig syrup is also recommended.

Pyro (66/44).—DENTAL IMPRESSION-WAX.—Pure beeswax is best, but a cheaper wax is made by melting together hard paraffin 7 parts and Japan wax 1 part, colouring with alkanet.

W. E. W. (68/39).—*Enanthe crocata* is commonly known as water hemlock, water drop, and dead tongue. It is a

poisonous herb which has caused many fatalities, especially among cattle. There is no medicinal use for the herb.

Manager (65/37).—We do not know of any compound of a fatty nature which restores the natural colour of hair that has turned grey. Practically all the restorers are lead preparations similar to those given in "Pharmaceutical Formulas," p. 120. Sometimes these preparations act best when they are comparatively weak in lead and sulphur; the action seems to depend upon the receptivity of the person who uses the hair-restorer. There is no work better than "Pharmaceutical Formulas," so far as the recipes are concerned, but you might consult Lewkowitsch's "Preservation of the Hair" (Wright, 2s.), or Startin's "Care of the Skin and Hair" (Wright, 2s. 6d.).

Essential Oil (55/44).—LIME-JUICE AND SODA ESSENCE.—The sample you send is certainly well flavoured, and, although at first we were inclined to the view that this had been managed by the addition of a little citral or a trace of lavender oil, we have come to the conclusion that the fortifying-agent is terpeness oil of limes. One of the formulæ which we have for a soluble essence of limes employs a mixture of oil of limes, terpeness oil of limes, and tincture of limes, and there is no doubt that this is the best means of obtaining the entire flavour of the lime-fruit.

E. R. (52/36).—ALUMINIUM FLUX.—The substances most used as a flux for aluminium are stearic and oleic acids, copaiba balsam, Russian tallow, potassium chloride, and an ammoniacal solution of potassium nitrate.

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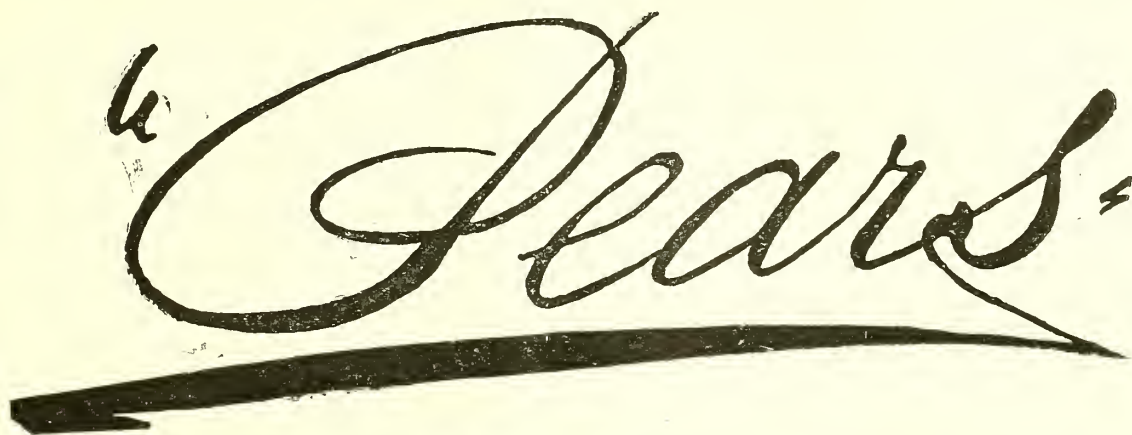
Retrospect of Fifty Years Ago.

Reprinted from "The Chemist and Druggist," Sept. 15, 1866.

B.P.C.

On Syrup of Phosphate of Iron. By C. Umney, F.C.S.

The author reported that, the official syrup of phosphate of iron having been found to acquire a reddish-brown colour, he made a series of experiments to ascertain the nature of this change. The action of light and air was determined by putting the syrup into dark-blue and light-green bottles placed in an ordinary window and on a roof, and noting the changes which occurred in the different portions through a period of five months. It was found that the syrup in the bottles underwent little change, while that which was exposed to the action of the air contained in the half-filled bottles assumed the objectionable reddish-brown colour and deposited phosphate of iron. The portion of syrup which underwent the greatest alteration was that which partially filled a light-green bottle. To determine whether the phosphoric acid decomposed the sugar, a syrup was prepared from these two bodies, without iron, and placed in bottles. It was found that this syrup became coloured, and that the cane-sugar had been converted into grape-sugar by the action of phosphoric acid. From these experiments, and others of a confirmatory character, the author drew the following conclusions: that the change of colour in syrup of phosphate of iron was chiefly due to the action of the air contained in partially filled bottles; that this change was to some extent influenced by light; that oxidation was promoted and colouration induced by the conversion of the cane-sugar into grape-sugar. For the better preservation of the syrup the author suggested that it should be kept in bottles of convenient size for use, so that it might not remain long in contact with air. He also suggested that the solution of phosphate of iron in dilute phosphoric acid should be kept, and the syrup made from it in small quantities by the addition of sugar.



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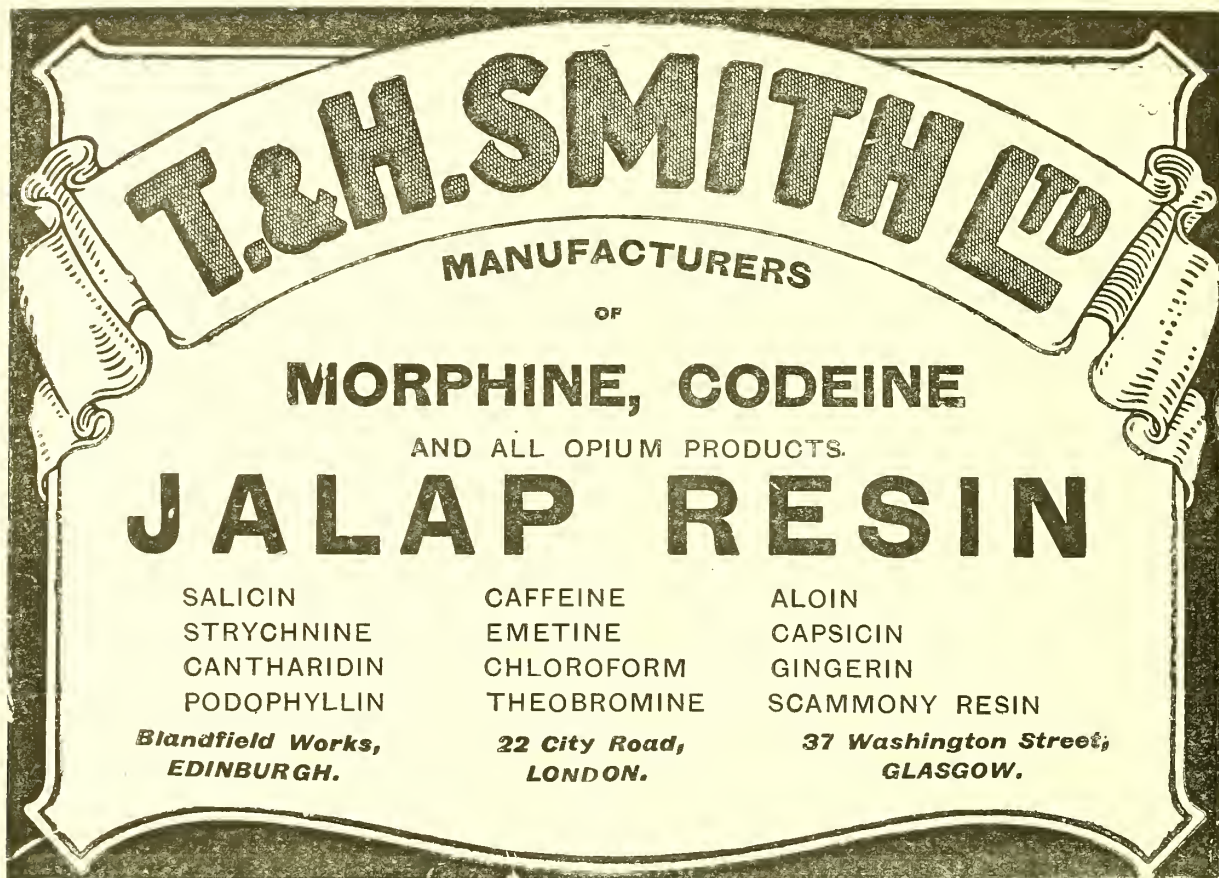
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- A** cetanilide, B.P., 1 lb. @ 5/- lb.; powder, 1 lb. extra.
- *Acet. Ipecac., B.P., 6 lbs. @ 2/- lb.
- „ Scilla, P.B., 6 lbs. @ 5d. lb.
- *Acid. Acet. Glacial, 99%, 6 lbs. @ 3/2 lb.
- „ Acetylo-Salicyl, 1 lb. @ 37/- lb.
- „ Benz, B.P., 7 lbs. @ 26/- lb.; 1 lb. @ 27/- lb.
- „ Boric Pulv., 3 cwt. @ 61/9 cwt.; 1 cwt. @ 62/9 cwt.; levigd. 3/- cwt. or 1/4 lb. extra.
- „ Carbol. Xtls., 39/40; 56 lb. drums @ 2/1 lb.; 121-lb. Bots. @ 2/4 lb.; Single Bots. @ 2/6 lb.; Detached Cryst. 1 lb. @ 2/8 lb.; Crude Black, 45 gall. casks @ 1/1 gal.; 5 gall. drums @ 1/8 gall.; 1 gall. tins @ 2/6 each.
- „ Citric, cryst., B.P., 85, 7 lbs. in bags @ 3/2 lb.; powder, 1/4 lb. extra.
- „ Diethylbarbituric, 1 oz. @ 6/6 oz.
- „ Gallic, pur., P.B., 7 lbs. @ 7/3 lb.; 1 lb. @ 7/6 lb.
- „ Hydrobrom., 6 lbs. @ 2/6 lb.
- „ Hydrochlor. Coml., cases of 4 2-gal. jars, 28/6 each; 20 case lots @ 27/6 each.
- „ Hydrocyan. P.B., 6 lbs. @ 1/7 lb.; 1 lb. @ 2/- lb.; 36 1-oz. Vials @ 7/6 doz.
- „ Oxalic Cryst., 1 cwt. @ 2/0 1/2 lb.; 14 lbs. @ 2/2 lb.
- „ Phosph. Dil. B.P., 6 lbs. @ 5d. lb.
- „ Salicyl. pulv. 1 lb. @ 11/- lb.
- „ Sulphur, Coml., cases, 4 2-gal. jars @ 36/- each; 20 cases @ 35/- each.
- „ Sulph. Aromat. B.P., 5 lbs. @ 4/4 lb.
- „ Tannic, B.P., 1 lb. @ 6/6 lb.
- „ Tart., cryst. or pulv. B.P., 1885, 7 lbs. @ 3/2 lb.; parv. 1/4 lb. extra.
- Adeps Benz., B.P., 28 lbs. @ 1/0 1/2 lb.; 7 lbs. @ 1/1 1/2 lb.
- Ærugo Æris Pulv., 14 lbs. @ 1/5 lb.
- Aloes Barb., English-ground, 28 lbs. @ 120/- cwt.; 7 lbs. @ 1/3 lb.
- Aloes, Socot. 7 lbs. @ 1/5 lb.; powder, 7 lbs. @ 1/6 lb.
- Aloin, B.P., 1 lb. @ 5/6 lb.
- Ammon. Benz., 7 lbs. @ 26/- lb.; 1 lb. @ 27/- lb.
- Ammon. Brom. P.B., 7 lbs. @ 6/6 lb.
- Ammon. Carb. lump, 3 cwt. @ 8d. lb.; 28 lbs. @ 9d. lb.; 7 lbs. @ 9 1/2 d. lb.; powder, 1/4 lb. extra.
- Ammon. Chlor., 99% pulv., 1 cwt. @ 59/- cwt.; 7 lbs. @ 7 1/2 d. lb.; Batteries, 6/- cwt. extra.
- Amyli Pulv., 10 cwt. @ 30/- cwt.; 2 1/2 cwt. @ 31/- cwt.; 1 cwt. @ 32/6 cwt.
- Aniseed, English ground, 1 cwt. @ 62/- cwt.; 7 lbs. @ 7 1/2 d. lb.
- Antim. Nig. Pulv., 7 lbs. @ 9d. lb.
- Antim. Tart. Pulv., 7 lbs. @ 3/- lb.
- Apiol, 1 lb. @ 27/6 lb.
- *Aqua Anethi Conc. 1-40, 1 lb. @ 3/5 lb.
- „ Anisi Conc. 1-40, 1 lb. @ 3/5 lb.
- „ Aurant. Conc. 1-40, 1 lb. @ 6/8 lb.
- „ Aurant. Trip., 6 lbs. @ 8d. lb.; 53 lbs. for 23/-
- „ Cinnam. Conc. 1-40, 1 lb. @ 3/10 lb.
- „ Laurocerasi, 6 lbs. @ 8d. lb.
- „ Ment. Pip. Conc., 1-40, 1 lb. @ 3/6 lb.
- „ Rosæ Conc. 1-40, 1 lb. @ 7/6 lb.
- „ Rosæ Trip., 53 lbs. for 25/-; 6 lbs. @ 8d. lb.
- „ Samb. Conc., 1-40, 1 lb. @ 6/8 lb.
- „ Samb. Trip., 6 lbs. @ 8d. lb.
- Araroba, fine powder, 7 lbs. @ 8/- lb.; 1 lb. @ 8/6 lb.
- Argent. Nit., 6's to oz., 25 oz. @ 2/3 oz.; 1 oz. @ 2/4 1/2 oz.
- Argent. Nit., Cryst., 25 oz. @ 2/1 oz.; 8 oz. @ 2/2 oz.
- Arsenic. Alb. Pulv., 2 cwt. @ 43/6 cwt.; 7 lbs. @ 5 1/2 d. lb.
- Atropinæ Sulph., P.B., 1 oz. @ 165/- oz.
- Auri Chlor., 6 doz. 15 gr. tubes @ 22/6 doz.; 1 doz. 15 gr. tubes @ 22/9 doz.
- *Bals. Copaibæ, pure, 44 lbs. @ 3/2 lb.; 9 lbs. @ 3/6 lb.; 1 lb. @ 3/9.
- „ Peruv., P.B., 1 lb. @ 19/- lb.
- „ Sulphur, 7 lbs. @ 1/- lb.
- „ Tolut. B.P., 50 lbs. @ 2/- lb.; 1 lb. @ 2/10 lb.
- Bismuth, P.B., Carb., 3 lbs. @ 13/6 lb.; 1 lb. @ 14/- lb.; subnit., 3 lbs. @ 12/6 lb.; 1 lb. @ 13/- lb.
- „ Salicyl., 1 lb. @ 24/- lb.
- Boracic Mixture, 1 cwt. @ 85/- cwt.
- Borax, 1 cwt. @ 37/-; powder 1/- extra.
- Butyl-Chloral Hydras., P.B., 1 lb. @ 1 lb.
- Caffeine, P.B., 1 lb. @ 40/- lb.
- Caffeinæ Cit., B.P., 1 lb. @ 25/6 lb.
- Calamina, powder, fine pink, 5 cwt. @ 25/- cwt.; 1 cwt. @ 32/- cwt.; 7 lbs. @ 4d. lb.
- Calamine, B.P., 1885, 7 lbs. @ 1/3 lb.
- Calci Carb. Præcip., 5 cwt. @ 18/6 cwt.; 1 cwt. @ 23/- cwt.; 28 lbs. @ 27/6 cwt.
- „ Hydras., P.B., 1 cwt. @ 25/- cwt.; 7 lbs. @ 5d. lb.
- „ Hypophosph. Pur., P.B., 1 lb. @ 4/- lb.
- „ Iodid., 1 lb. @ 21/6 lb.
- Camphor, English Flowers, "not artificial," 5 lbs. @ 2/6 lb.; 1/2 oz. or 1/4 oz. 7 lbs. @ 2/8 lb.; good white, about 95% as imported, 140 lbs. @ 1/9 1/2 lb.; 28 lbs. @ 1/10 1/2 lb.
- Capsicine, soluble, 1 lb. @ 9/6 lb.
- Carbo Animalis or Ligni, powder or lump, 1 cwt. @ 25/- cwt.; 28 lbs. @ 3 1/2 d. lb.
- Cardamoms, 28 lbs. @ 3/3 lb.; 7 lbs. @ 3/6 lb.
- Carmine, Finest, 1 lb. @ 30/- lb.; No. 2, 1 lb. @ 25/- lb.
- Cera Alba, B.P., White Moons, 28 lbs. @ 2/2 lb.; 4 lbs. @ 2/4 lb.; Flav. 1 lb. Blocks, 28 lbs. @ 1/9 1/2 lb.; 4 lbs. @ 1/10 1/2 lb.; 1 oz., 1/2 oz. tabs., 7 lbs. @ 1/10 1/2 lb.
- Cerii Oxalas, 1 lb. @ 6/6 lb.
- Cetaceum, No. 1, fine white, 64 lbs. @ 1/1 lb.; 7 lbs. @ 1/3 lb.; powder, 7 lbs. @ 1/7 lb.
- Chloral Hydras Cryst., B.P., 7 lbs. @ 13/- lb.; 1 lb. @ 13/6 lb.
- Chlorodyne, 5 lbs. @ 2/6 lb.
- *Chloroform, pure, B.P., 12 8-lbs. @ 3/2 lb.; 8 lbs. @ 3/3 lb.; 6 1-lb. bots. @ 3/7 lb.
- Codeina, 1 oz. @ 23/6 lb.; Phosph., 1 oz. @ 19/6 oz.; Hydrochlor. or Sulph., 1 oz. @ 20/6 oz.
- Colocynth, Apple, English ground, 1 cwt. @ 1/4 lb.; 28 lbs. @ 1/5 lb.; 7 lbs. @ 1/7 lb.
- Composition Powder (Coffin's), 1 cwt. @ 62/- cwt.; 7 lbs. @ 8d. lb.
- Conf. Sennæ, P.B., 14 lbs. @ 1/1 lb.; 7 lbs. @ 1/2 lb.
- Cort. Aurant. Exot. Shreds, 7 lbs. @ 2/4 lb.
- „ Cinchou. Rub. (Quill), 7 lbs. @ 1/7 lb.
- „ Ulmi Fulvæ, Pulv., 1 cwt. @ 11d. lb.; 7 lbs. @ 1/1 lb.
- Cream of Tartar, 98% powder, 1 cwt. @ 197/6 cwt.; 7 lbs. @ 1/11 lb.
- Creasote, Beechwood, P.B., 7 lbs. @ 13/- lb.
- Creta c. Camph., 7 lbs. @ 10d. lb.
- „ Gall. Pulv., in sacks, 10 cwt. @ 9/- cwt.; 1 cwt. @ 11/- cwt.; 14 lbs. @ 1 1/2 d. lb.
- „ Præparata, 7 lbs. in box @ 1/3 each.
- Cubebæ, English Ground, 28 lbs. @ 2/6 lb.; 7 lbs. @ 2/8 lb.
- *Dec. Aloes Co. Conc. 1-2, 6 lbs. @ 2/- lb.; Sinecroco, 6 lbs. @ 1/3 lb.
- „ Cinchonæ (Rubræ) Conc., 1-7, 6 lbs. @ 2/2 lb.
- „ Senegæ Conc., 6 lbs. @ 2/10 lb.
- Emp. Spread, 12 yards x 16 ins. adhesive, 6/-; Bellad. B.P.C., Green @ 28/6; Cerat. Saponis @ 12/4; Picis Co. @ 12/4; Plumbi @ 10/-; Resinæ @ 7/6; Roborans @ 11/6; Saponis, B.P., @ 10/-
- Emp. Picis, P.B., 7 lbs. @ 1/1 lb.
- „ Plumbi, P.B., 7 lbs. @ 1/1 lb.
- „ Resinæ, P.B., 7 lbs. @ 1/1 lb.
- „ Roborans, 7 lbs. @ 1/1 lb.
- Emulsio Ol. Morrhuæ, 5 lbs. @ 1/7 lb.
- Eserine Sulph., in 15-grain tubes, 8/3 each.
- Ess. Bergam. (Oil), 12 lbs. @ 19/6 lb.; 1 lb. @ 20/6 lb.; not guaranteed absolutely pure.
- Ess. Limonis (oil) original coppers, 12 lbs. @ 4/3 lb.; 6 1-lb. bots. @ 4/9 lb.; not guaranteed absolutely pure.
- *Ess. Moschi (not artificial), 5 lbs. @ 13/6 lb.; 1 lb. @ 14/3 lb.
- *Ess. Pear (artificial), Jargonelle, 5 lbs. @ 3/9 lb.; Bergamot, 4/3 lb.
- *Ess. Pineapple, 5 lbs. @ 4/- lb.
- „ Raspberry, 5 lbs. @ 2/8 lb.; 1 lb. @ 3/- lb.
- „ Vanilla Beans, 5 lbs. @ 4/6 lb.; 1 lb. @ 4/9 lb.
- *Ext. Belladonnæ Liq., B.P., 5 lbs. @ 20/- lb.; 1 lb. @ 20/6 lb.; solid, 7 lbs. @ 12/- lb.
- Ext. Cannab. Ind., Alc., B.P., 1 lb. @ 63/- lb.
- Ext. Cascara Sag. Liq., B.P., 1 cwt. @ 1/7 1/2 lb.; 10 lbs. @ 1/10 lb.
- *Ext. Ergot. Liq. P.B., 5 lbs. @ 4/8 lb.; 1 lb. @ 5/2 lb.; Solid, P.B., 4 lbs. @ 25/- lb.; 1 lb. @ 26/6 lb.
- Ext. Gent., P.B., solid, 1 cwt. @ 2/- lb.; 7 lbs. @ 2/2 lb.
- *Ext. Glycyrrh. Liq., B.P., 6 lbs. @ 2/7 lb.
- *Ext. Hamamelis Liq., P.B., 5 lbs. @ 3/11 lb.
- Ext. Hyoscyam. Solid, B.P., 3 lbs. @ 12/6 lb.; 1 lb. @ 13/- lb.
- *Ext. Ipecac. Liq., P.B., 5 lbs. @ 22/- lb.; 1 lb. @ 22/6 lb.
- Ext. Malti c. Ol. Jecoris, 10 lbs. @ 10d. lb.
- *Ext. Nucis Vom. Liq., P.B., 5 lbs. @ 4/6 lb.; 1 lb. @ 4/9 lb.; solid, 5 lbs. @ 4/6 lb.; 1 lb. @ 5/- lb.
- Ext. Opil Solid, P.B., 1 lb. @ 72/- lb.
- *Ext. Opil Liq., B.P., 5 lbs. @ 5/7 lb.; 1 lb. @ 6/2 lb.
- Ext. Quassia, Solid, 7 lbs. @ 8/- lb.; 1 lb. @ 8/6 lb.
- Ext. Sarsæ Co. Solid, 7 lbs. @ 6/- lb.; 1 lb. @ 6/6 lb.
- Ferri Ammon. Cit., P.B., 28 lbs. @ 3/11 lb.; 7 lbs. @ 4/1 lb.
- Ferri Carb., 14 lbs. @ 6d. lb.
- Ferri et Quinina Cit., P.B., 100 ozs. @ 11 1/2 d. oz.; 25 ozs. @ 1/- oz.
- Ferri Sulph., pure cryst., 1 cwt. @ 3 1/2 d. lb.; 7 lbs. @ 3 1/2 d. lb.
- Ferrum Redact., 80%, 7 lbs. @ 7/6 lb.; 1 lb. @ 7/10 lb.
- Flor. Anth. Exot., 7 lbs. @ 1/10 lb.
- Fol. Buchu, oval, 7 lbs. @ 2/10 lb.
- Fol. Sennæ Alex. parv., 28 lbs. @ 1/1 lb.

*Minimum quantity at these prices; Home Trade, 3 Winchester Quarts assorted; Export, 12 Winchester Quarts assorted.

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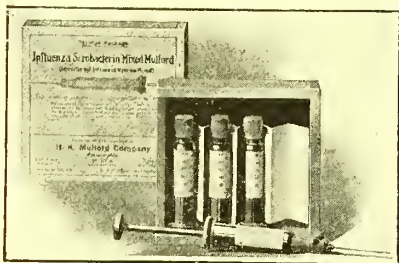
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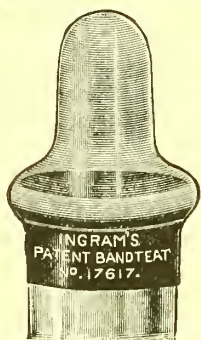


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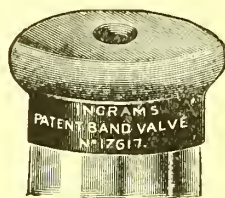
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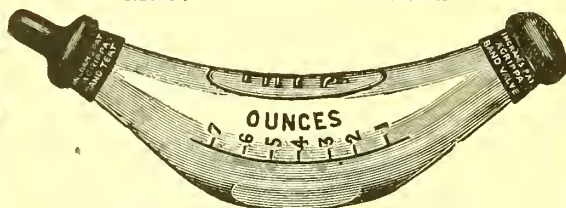
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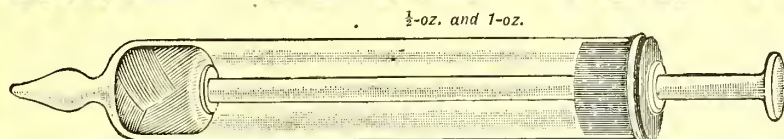
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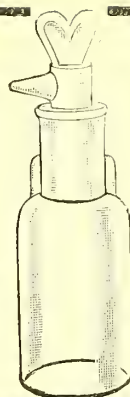
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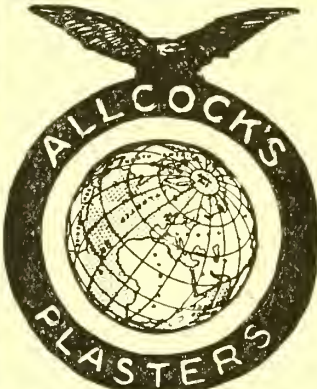
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
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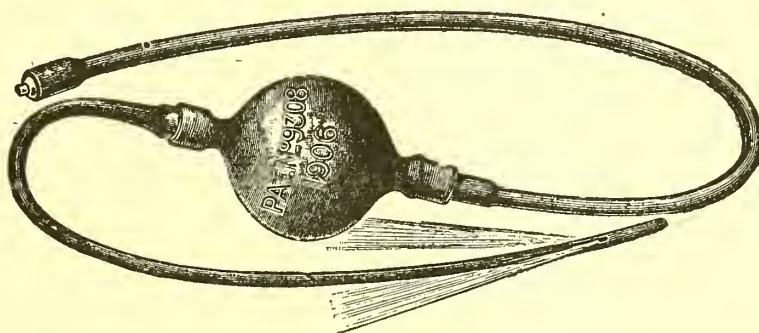
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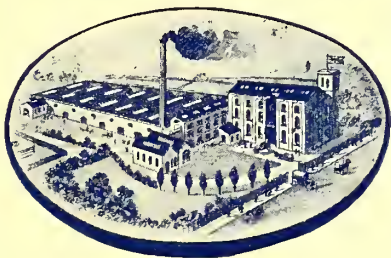
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